



ICCB 2017

CARTAGENA, COLOMBIA • JULY 23-27, 2017

Insights for sustaining life on Earth

CONFERENCE PROGRAM



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CARTAGENA, COLOMBIA

28TH INTERNATIONAL CONGRESS FOR CONSERVATION BIOLOGY

The International Congress for Conservation Biology is a forum for addressing conservation challenges and for presenting new research and developments in conservation science and practice. ICCB connects our global community of conservation professionals and is the major networking outlet for anyone interested in conservation.

The meeting theme, *Insights for sustaining life on Earth*, is a response to the need for conservation science to help create a better tomorrow for both biodiversity and people who depend on it.

Conservation science must inform local, national, and international efforts for effective, just, and enduring biodiversity conservation. Accordingly, ICCB is more than just a forum for showcasing the latest in conservation science. It's also a place to address the greatest conservation challenges of our time, for training early-career professionals, and for catalyzing conservation action.



Society for Conservation Biology

ABOUT THE SOCIETY FOR CONSERVATION BIOLOGY

SCB is a global community of conservation professionals with members working in more than 100 countries who are dedicated to advancing the science and practice of conserving Earth's biological diversity. The Society's membership comprises a wide range of people interested in the conservation and study of biological diversity: resource managers, educators, government and private conservation workers, and students.

SCB publishes the flagship peer-reviewed journal of the field, *Conservation Biology*, and the cutting-edge online journal, *Conservation Letters*. The Society provides many benefits to its community, including local, regional, and global networking, an active conservation-policy program, and free online access to publications for members in developing countries. SCB also administers a postdoctoral program, the David H. Smith Conservation Research Fellowship Program, sponsored by the Cedar Tree Foundation.



ICCB 2017

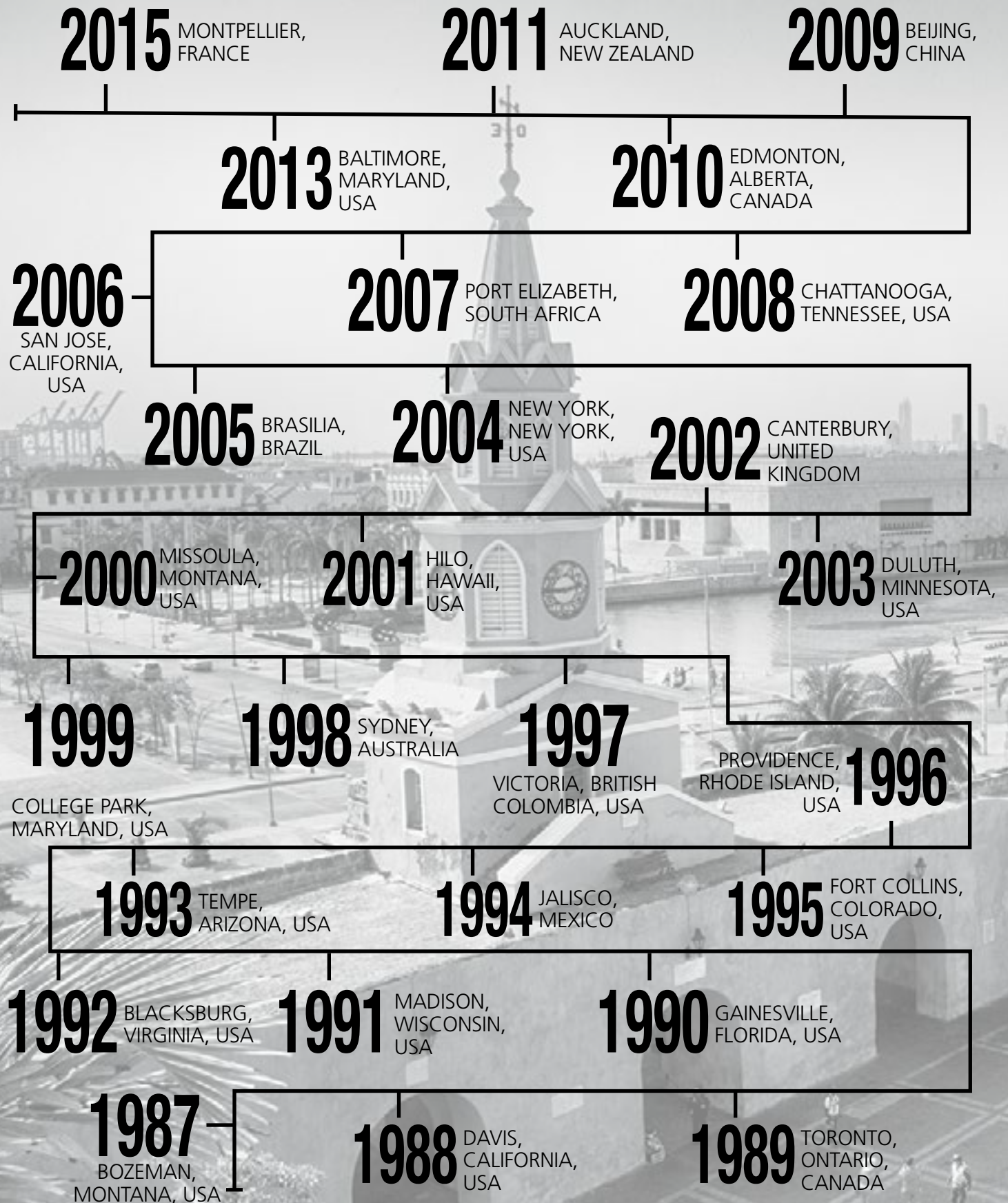
CARTAGENA, COLOMBIA • JULY 23-27, 2017

Insights for sustaining life on Earth

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CONGRESS HISTORY





Society for Conservation Biology

ICCB EVENT HOURS

The Cartagena Convention Center is open Monday – Thursday from 7:30 – 18:30.

Sunday 23 July

- Exhibition Set Up: 12:00 – 16:00
- Registration Opens: 14:00 – 16:30
- Opening Plenary & Cocktail: 16:30–18:30

Monday 24 July

- Congress: 8:30 – 18:30
- Exhibition: 9:30 – 17:00

Tuesday 25 July

- Congress: 8:30 – 18:30
- Exhibition: 9:30 – 17:00

Wednesday 26 July

- Congress: 8:30 – 18:30
- Exhibition: 9:30 – 17:00

Thursday 27 July

- Congress: 8:30 – 18:30
- Exhibition: 9:30 – 15:30
- Closing Ceremony: 18:30

CARTAGENA DE INDIAS CONVENTION CENTER

The Cartagena de Indias Convention Center covers three levels. ICCB events will take place on all three floors.

Located in the heart of Cartagena just a short walk to the vibrant old historic city center, the Convention Center has held some of the most significant events in Colombia since its opening in 1982, including the G8 Summit in 1994, the IV Conference of Heads of States of Iberoamerica in 2000, and the IV Congreso Colombiano de Zoología in 2014 with more than 3,000 participants.

The Cartagena de Indias Convention Center is also part of the sustainability program Pioneros Menos CO2 which aims to help congress organizers calculate, mitigate, offset and communicate about their event footprint.





Society for Conservation Biology

WELCOME *to* CARTAGENA



CARTAGENA, COLOMBIA • JULY 23-27, 2017

Insights for sustaining life on Earth

ICCB 2017: INSIGHTS FOR SUSTAINING LIFE ON EARTH

The theme for the Society for Conservation Biology's 28th International Congress for Conservation Biology (ICCB) is Insights for Sustaining Life on Earth.

ICCB brings together knowledge from the natural and social sciences to yield insights that can transform our work and relationship with the urban and natural world, so we can strive towards a more sustainable future.

Latin America is among the most incredible, naturally and culturally diverse places in the world. Yet it is riddled with issues of governance, such as unrecognised indigenous land rights and corruption, and ever increasing pressures for further resource exploitation to sustain consumption. It is also the source of inspiration for solutions to conservation issues that go beyond the implementation of protected areas where people are central and resource governance bespoke.

In recent years, the world has faced some unprecedented challenges. In this congress, we hope you will come together and treasure knowledge from diverse fields and people, inspiring ideas and projects that enable us to solve these challenges. Insights gained from science and practice will be shared through oral and speed presentations, posters, knowledge cafés, art, games and plenaries; make sure you engage in all of these.

We are honored to have chaired the Scientific Committee and we're incredibly grateful to the members of the Scientific Committee and to more than 100 committee volunteers who contributed their time and energy to making ICCB 2017 a success.

At first I thought I was fighting to save rubber trees, then I thought I was fighting to save the Amazon rainforest. Now I realize I am fighting for humanity.

— Chico Mendes



Morena Mills
Scientific Committee
Chair



Kartik Shanker
Scientific Committee
Co-Chair



Ximena Rueda
Scientific Committee
Co-Chair





SCB *Welcomes* YOU



Deborah Luke, Ph.D.
SCB Executive Director



Mike Mascia, Ph.D.
SCB Board of Governors
President (2017-2019)

WELCOME TO CARTAGENA AND THE INTERNATIONAL CONGRESS FOR CONSERVATION BIOLOGY

Hola y bienvenidos a Cartagena! As the Society for Conservation Biology (SCB) celebrates the 30th anniversary year of its first International Congress for Conservation Biology (ICCB), we are excited to return to the tropics of Latin America. We hope that you will explore – and enjoy – the rich history, dynamic culture, and fascinating biodiversity of Colombia.

The conference theme, *Insights for Sustaining Life on Earth*, highlights the massive opportunities – and responsibilities – that lie before SCB and its members. A variety of critically important conservation-based protocols, policies and global agreements such as the Sustainable Development Goals, Paris Agreement, and Convention on Biological Diversity envision a better tomorrow for both people and nature. At this pivotal moment in human history where the validity and even the need for science is contested in some capitals, it is more important than ever that we stand together as a global society. As conservation scientists, we must work together to provide the evidence and insights that will allow governments, corporations, and individuals to act wisely and strategically to realize this collective vision of a sustainable future. ICCB 2017 is a key opportunity for us to shape the future of our planet by both advancing scientific understanding and informing critical policy deliberations.

ICCB 2017 features myriad opportunities to learn, share, collaborate, and get involved in SCB. The conference program features plenaries, symposia, workshops, short courses, posters, oral presentations, knowledge cafés, field trips, and numerous side events. Exhibitors from around the world are showcasing the latest in conservation science, technology, field practice, and environmental art. Journalists from Colombia and beyond are here to share your experiences. And the Board, Regional Sections, Working Groups, and Chapters of SCB are meeting to review recent accomplishments and to chart next steps in our efforts to advance the science and practice of conserving biodiversity.

We encourage you to explore these opportunities to the fullest. Catch up on the latest research in your area of expertise, but also participate in activities outside your disciplinary or geographic comfort zone. Strengthen existing relationships, but remember to introduce yourself to people you don't know. Immerse yourself in ICCB 2017 activities – and in the wonders of our host country.

Disfruta de la conferencia!

Deborah Luke, Ph.D.
SCB Executive Director

Mike Mascia, Ph.D.
SCB Board of Governors President (2017-2019)



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Natalia Norden
Nigel Noriega
Ursula Jaramillo Villa

Special thanks to Vikram Aditya, Sandeep Sen, Mallika Sardeshpande and Prashanth M B for their support in the cumbersome yet invaluable task of attributing reviewers to thousands of abstracts and to Cristina Romero for stepping in and helping with ICCB abstract review.

The committee is also grateful to the following reviewers who worked together to review thousands of abstracts submitted for consideration

for ICCB 2017: Abhishek Harihar, Agus Utomo, Alessandra Lobo, Allan Valverde Blanco, Allen Blackman, Alvaro Roel Belot, Amy Duchelle, Amy Ickowitz, Andre Caribé, Andrea Liebl, Anna Savage, Anya Phelan, Armando Valdes, Arundhati Das, Beatrice Frank, Berglind Karlsdottir, Bill Sutton, Brett Hartl, Brianna Henry, Buddha Pukazhenth, Caitlin Burrell, Carla Archibald, Carolyn Lundquist, Christoph Nolte, Claude Garcia, Courtney Morgans, Cristina Romero, Daniel Kammen, Daniel Miller, David Hayman, David Kersey, David Wilkie, Diogo Veríssimo, Divya Vasudev, Doris Cordero, Duan Biggs, Eddie Game, Edward Christien Parsons, Edward Orlando, Federico Davila, Gretchen Walters, Guillaume Lescuyer, Gwen Iacona, Hari Sridhar, Hui Xiao, Ilona Naujokaitis-Lewis, James Watson, Jan Plesnik, Jennifer Nagashima, Jenny Glikman, Jesus Carrasco, Jimmy Choi, John Cigliano, John Matter, Juan Carlos Garcia Ramirez, K.S. Gopi Sundar, Karthik Teegalapalli, Katia Nakamura, Katrina Davis, Keith Bowers, Kim Carlson, Kimberly Terrell, Kulbhushansingh Suryawanshi, Kwek Yan Chong, Kyle Barret, Laura Schneider, Linda Penfold, Mallika Sardeshpande, Micha Jackson, Michaela Plein, Miguel Altieri, Mike Jones, Mike Wong, Milind Bunyan, Molly Bletz, Natalia Huang, Natalie Calatayud, Nathalie Butt, Nathalie Van Vliet, Naveen Namboothri, Parker Pennington, Paula Bueno, Pierre Comizzoli, Prashanth Vaidyaraj, Pushpendra Rana, Rachael Garrett, Rachel Friedman, Raman Kumar, Rebecca Hobbs, Robert Heilmayr, Robin Vijayan, Rodrigo Villate, Rohit Naniwadekar, Sadie Ryan, Sandeep Sen, Sara Burbi, Sarah Moore, Sean Maxwell, Sharlene Boey, Shonda Foster, Sinlan Poo, Stephan Pietz, Stephen Woodley, Temitope Israel Borokini, Terri Roth, Tina Dow, Tyrone Hayes, Umesh Srinivasan, Vikram Aditya, Viorel Popescu, and Walter Vermeulen.

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Theresa Deconinck, MCI-U.S.
Melisa Figueroa, MCI-Buenos Aires
Angela Ramirez, MCI-Bogotá
Diana Vargas, MCI-Bogotá

OTHER VOLUNTEERS

Many others contributed to the organization of ICCB 2017. We're thankful to everyone who lent their support and time in service to the Congress.





SCB SERVICE AWARDS

SCB is proud of the career achievements of its members and the outstanding contributions they make to conservation and we honor those achievements through an official awards program.

This year we're excited to honor five extraordinary scientists at the ICCB Opening

Ceremony for their work to advance the science and practice of conserving Earth's biological diversity.

Recipients of 2017 SCB Service Awards were nominated by members of SCB, selected by the Society's Awards Committee, and approved by the SCB Board of Governors.

SCB AWARDS PRESENTATION AT THE ICCB OPENING CEREMONY GRAN SALON BARAHONA • SUNDAY, 23 JULY, 16:30

DISTINGUISHED SERVICE AWARD

Recognizes individuals, groups or institutions for distinguished service in any field associated with conservation biology and whose work has furthered the mission of SCB.

2017 SCB DISTINGUISHED SERVICE AWARD WINNERS

Hermann Borg
Angelo O'Connor Villagomez

EDWARD T. LAROE III MEMORIAL AWARD

Recognizes leaders who translate principles of conservation biology into real-world conservation through the innovative application of science to resource management and policy. Preference is given to employees of government agencies or individuals who have spent time in public service.

2017 SCB EDWARD T. LAROE III MEMORIAL AWARD WINNER

Patricia Heglund

EARLY CAREER CONSERVATIONIST AWARD

Honors achievements in conservation by professionals early in their careers.

2017 SCB EARLY CAREER CONSERVATIONIST AWARD WINNER

Diogo Verissimo

CONSERVATION BEACON AWARD

Recognizes emerging women leaders in conservation, particularly those who have overcome socio-economic, cultural and political barriers, and are achieving great strides in applied conservation.

2017 SCB CONSERVATION BEACON AWARD WINNER

Mimi Lam

ASSISI AWARD

From SCB's Religion and Conservation Biology Working Group, the Assisi Award recognizes selfless acts of service to life on Earth driven by spiritual motivations. The award aims to reinforce collaboration amongst faiths and conservation by acknowledging organizations and individuals that demonstrate through their work that faith-based conservation contributes to the global effort of protecting our common home.

RELIGION AND CONSERVATION BIOLOGY WORKING GROUP ASSISI AWARD WINNER

Sister Mary David Walgenbach

¡ENJOY CARTAGENA!

Beautiful beaches, great restaurants, exciting tours, museums, historic landmarks, and outdoor excursions make Cartagena a perfect conference destination.

SAVOR OUR CUISINE

Colombian cuisine is centered on seafood. Whether you're taste-testing traditional ceviches, chowing down on lobster, or venturing out to sample lionfish-inspired dishes, plenty of restaurants abound to suit your palate. And take note: lunch is the primary meal in Cartagena, so do as the locals do and treat yourself to a midday feast.

ARTS AND CULTURE FOR EVERY TASTE

For those seeking to explore the culture of Cartagena, the city provides numerous attractions that highlight Colombian arts, customs and traditions. For the light-hearted, Ciudad Movil serves up culture in the form of music, dance and open-minded artistic expression. Casa Museo La Presentacion, NH Galeria, and the Museum of Modern Art provide contemporary art for the appreciative eye. And still fresh off its centennial anniversary is the Teatro Adolfo Mejia, which holds musical concerts, poetry readings, film screenings and theatrical performances.

EXCITEMENT AROUND EVERY CORNER

Salsa dancing, live music, theme bars and conjunto vallenatos all make up the eclectic and exciting nightlife of Cartagena.



FINDING YOUR WAY AROUND THE CONGRESS

Congress Venue

Cartagena de Indias Convention Center
Centro Histórico
Getsemaní Calle 24 #8A-344
Cartagena, Colombia

All ICCB 2017 Pre-Congress Short Courses are to be hosted at the Universidad de Cartagena Claustro de San Agustín, Cra. 6 #36-100, Cartagena, Bolívar, Colombia; except National Geographic Sciencetelling™ Bootcamps to be hosted at the Cartagena Hyatt Regency, Cra. 1, Cartagena, Bolívar, Colombia.

VOLUNTEERS

Look for the yellow t-shirts

Volunteers can be easily identified by their yellow ICCB t-shirts. Please do not hesitate to ask them for assistance as they are here to help and direct you.

Volunteers: Please check in at the registration desk.

GETTING AROUND & THINGS TO DO

COFFEE SHOPS

Juan Valdez

Next to the Convention Center. Juan Valdez is a great place to meet and chat.

Café del Mural

A great place to try the best coffees. The owner is exploring coffee recipes. Open only in the afternoon.
Calle San Juan #25-60. Getsemaní.

Oh lala Bistro

Nice coffee shop and restaurant, owned by a French chef.
Calle Larga Callejon Vargas. Esquina. Getsemaní.

Ábaco Libros y Café

Nice library and coffee shop where writers and artists meet. Come to read, listen to jazz, chat and get a cup of coffee or wine.
Calle de La Iglesia con Calle de La Mantilla. Esquina. Walled city.

Café San Alberto

Small cozy place to have a nice coffee and chat.
Calle de Los Santos de Piedra Cra. 4 #34-1 a 34-91, Cartagena, Bolívar. Walled city.

Beiyú

Slow food and fair-trade coffee shop. Offers exotic fruit juices and supports local farmers. Vegan options. Good breakfast.
Calle Guerrero 29-75. Getsemaní.

Gelateria Paradiso

With the high temperatures in Cartagena, Gelateria Paradiso is a must visit! Come explore ice creams of exotic local flavours.
Esquina Carrera 5, Cl. 36. Walled City.

RESTAURANTS

Acción de Gracias

Cheap, fast and good for lunch. Close from the convention center.
Media Luna 8B #8B-63. Getsemaní.

Di Silvio Trattoria

Reowned pizza and pasta restaurant. There are other street pizza places nearby.
Cl. 29 #9A-08. Getsemaní.

La Mulata

Walled city. Nice, cheap, local food restaurant.
Calle Quero 9 58 Sandiego.

La Cocina Cartagenera

Tasty local food.
Calle Tumbamuertos. Sa Diego. Walled City.

Chachara Restaurante

Hamburguers and good music in a venue that is great for conversation
Cl. 29 #972. Getsemaní.

Saint Roque Café Pub Restaurante

Small cozy place, French style. Food combines French and Indonesian cuisine.
Cra. 10c #29-214. Getsemaní.

Café Lunático

Small cozy place in Getsemaní with nice food.
Calle Espíritu Santo #29-184, Cartagena, Bolívar.

Restaurante Interno

This restaurant helps retrain and prepare women inmates who are near to their release date.

Cárcel de mujeres de San Diego, Calle 39, Barrio San Diego. Walled City.

Crepes & Waffles

The most popular restaurant in Colombia. Good prices, fast service and a view of Cartagena at night. The restaurant is also famous because it mainly employs single mothers to help provide job and financial security.
Plaza de San Pedro, Cra. 4 #31-24. Walled City.

Se Volvió Prisprí

Good place for quick bite to eat (salad, sandwiches).
Carrera 4 # 32 - 20, Calle del Landrinal. Walled City.

Basílica Pizzería Café

Calm place to chat and enjoy pizza while surrounded by street sculptures from renown artist Edgardo Carmona.
Cra. 26 #25-78, Cartagena, Bolívar.

Malagana Café Bar

A relaxing place with a nice rooftop terrace. Stop by to chat and have a salad or sandwich.
Getsemaní, Calle Tripita y Media 31-55. Getsemaní.

Continued...





GETTING AROUND AND THINGS TO DO *(Cont'd)*

La Cevichería

The most famous ceviche restaurant in town!

Cl. 39 #7 14. Walled City.

La Cocina de Pepina

A small cozy place to try special food from Cartagena.

Cl. 25 #10B-6. Getsemani.

La Bonga del Sinú

For meat lovers.

Esquina Playa, Cl. 24 #10D-25.

Getsemaní.

El Bar del Sur

Nice coffee shop and restaurant next to Plaza de la Trinidad: a place where travelers and people from the neighborhood get together.

Cl. 29 #1027, Cartagena, Bolívar.

Getsemaní.

Ganesh

Indonesian food.

Getsemani.

El Balcón

Second floor restaurant with view to the San Diego Plaza. Nice music. Also good for networking events.

Plaza San Diego Esquina. Walled City.

La Casa de Socorro

Nice seafood restaurant close to the convention center. Be aware that there are three restaurants under the name Socorro - one after the other.

Cl. 25 #8B-112. Getsemani.

Pezetarian

For vegetarians and people only eating fish. Good prices.

Cra. 7 #36-19. Walled City.

La Hamburguesería

Enjoy a nice burger while in San Diego plaza.

Esquina san diego con tumbamuertos. Walled City.

FOR DRINKS AND PARTY

Bazurto Social Club

Want to learn about and dance to Cartagena's most popular music? Come enjoy the rhythms of champeta.

Av. Centenario #30-42. Getsemaní.

Café Havana

Enjoy live salsa at night.

Esquina, Cra. 10. Getsemaní.

Quebra Canto

The most traditional salsa place in town.

Calle 24, Media Luna 8B #25-100.

Getsemani.

Mister Babilla

Popular Disco. Good for reggaeton lovers.

Av. del Arsenal No. 8B - 137.

Getsemani.

Alquímico – Mixología

Come explore cocktails in this laboratory of drinks. Great place to come with friends at night.

Calle del Colegio #34-24. Walled City.

Demente

Bar for late evenings. Always full of tourists.

Cra. 10 #29-29, Cartagena, Bolívar.

Bourbon

Popular party place in the Walled City. Live music.

St. 30, Cl. 35 #3.

IMPORTANT RECOMENDATIONS

- Cartagena has many informal sellers of arts and other products on the streets. Tourists and locals are advised not to touch anything they do not plan to purchase. To touch indicates interest and may lead to aggressive sales tactics.
- Always ask for / confirm the price before you consume food or beverages. If you don't ask, you might be charged significantly more than the actual cost.
- People in Cartagena do not usually know street addresses. Rather, directions are given to specific reference points. If you're looking for a specific place, just give someone the name of where you want to go (as opposed to the address).
- Beware of illegal drug sales and prostitution in Cartagena. Tourists may be viewed as potential buyers / clients. Please take caution to avoid these areas and activities for your own safety.



ICCB 2017 SOCIAL EVENTS

OFFICIAL EVENTS ORGANIZED BY SCB

ICCB 2017 OPENING CEREMONY AND AWARDS PRESENTATION

TO BE FOLLOWED BY A COCKTAIL HOUR

14:30 ON SUNDAY 23 JULY

Gran Salon Barahona

Jump start ICCB 2017 at the Society's 2017 Opening Ceremony and Awards Presentation! We'll hear from a special lineup of speakers including Colombia Ministro de Ambiente y Desarrollo Sostenible (Minister of Environment and Sustainable Development) Luis Gilberto Murillo and Universidad de Cartagena President, Dr. Edgar Parra Chacon.

The Opening Ceremony includes the 2017 SCB Awards Presentation where we'll present the SCB Distinguished Service Awards, Edward T. LaRoe III Memorial Award, Early Career Conservationist Award, and the Conservation Beacon Award. We'll also honor the winner of the Religion and Conservation Biology Working Group's first ever Assisi Award.

The SCB Awards Presentation will be followed by a cocktail hour at the Cartagena Convention Center.



Kerry Sink and Mike Hoffman accept Distinguished Service Awards at the Society's Awards Presentation at ICCB-ECCB 2015 in Montpellier, France.

ICCB CLOSING CEREMONY

STARTING AT 17:00 ON THURSDAY 27 JULY

Cloister Terraces

Join us for music and local food as we celebrate ICCB 2017. This ticketed event includes one Colombian-style dinner, one free glass of wine (followed by cash bar) and free soft drinks.

The Closing Ceremony includes musical performances, a Colombian Artist Fair and the 2017 SCB Chapters Silent Auction.

We'll hear from the Director of Parques Nacionales Naturales de Colombia and Deputy President of the World Commission on Protected Areas, Dr. Julia Miranda Londoño as well as Baba Brinkman, a peer-reviewed rapper from Canada.



SIDE EVENTS @ ICCB 2017

EVENTS ORGANIZED OUTSIDE OF SCB AND ICCB



WWF EFN SYMPOSIUM

JULY 22, 2017 | 8:30 – 17:00

Hyatt Regency Cartagena | Carrera 1 #12-118 | Cartagena, Colombia, 130000

The WWF Russell E. Train Education for Nature Program (EFN) will be holding an EFN Symposium on July 22, 2017. This event will bring together EFN grantees from around the world to exchange ideas, promote collaboration, and create a stronger EFN grantee network. A limited number of additional spots are open to the public. For more information and to RSVP, please see: <https://shellyjackson.wixsite.com/wwf-efn>.



OCEAN HAPPY HOUR

JULY 24, 2017 | 18:30 - 20:30

Chachara Restaurant | Calle 29 #972 | Cartagena

The Marine Section of the Society for Conservation Biology and the Ocean Modeling Forum are co-hosting an informal happy hour on Monday July 24th. We are gathering at Chachara Restaurant (Calle 29 #972), about a 6 minute walk from the convention center, from 6:30 to 8:30. We welcome all friends of the ocean to join us - the appetizers are free, but the beer is on you!

CONNECTIVITY CONSERVATION SPECIALIST GROUP GATHERING AT ICCB 2017

JULY 26, 2017 | 17:00

Chachara Cartagena | Calle 29 #972 | Cartagena

The CCSG will be hosting a gathering at the Chachara Cartagena on July 26, 2017. The event will be open to all members as well as anyone interested in learning more about the group. The CCSG connects practitioners around the world to support ecological connectivity conservation and advise in establishing IUCN's Areas of Connectivity Conservation. Appetizers and drinks will be provided.



BAT WALKING TOUR

JULY 24, 2017 | 18:40

Departure point: Cartagena Convention Center (see outside the front door of Center)

Group size maximum 15, first come first served
Turn your phone into a bat detector! Join us for a demonstration of Echo Meter Touch bat detectors with Wildlife Acoustics. If you would like to try it on your iOS device, please download and install the Echo Meter Touch app then install the bat calls for Colombia. If you do not have a device we will provide demos for you. Bat walks will meet in front of the convention center at 6:30 pm and last approximately 30 minutes. Please contact Jackie Grant (jacquelinegrant@suu.edu, tweet to @JackieGrant3) and Nicole Wright (nicole@wildlifeacoustics.com), if you would like more information.

HUMAN-FELID CONFLICTS - BOOK LAUNCH

JULY 27, 2017 | 16:00

Cartagena Convention Center | Salon Pegasos

Fundación Herencia Ambiental Caribe, Panthera and the Alexander von Humboldt Institute will host a book launch for their latest publication "Conflicts between humans and felids in Latin America." The event will feature the presence of Dr. Alan Rabinowitz, Panthera's CEO and eminent wildcat scientist, along with the book editors: Carlos Castaño-Uribe, Carlos A. Lasso, Rafael Hoogesteijn, Angélica Diaz-Pulido and Esteban Payán, experts in the area of conflict between humans and felids and will be open to the public (but please RSVP to Elisa Bravo at ebravo@panthera.org).

LEVERAGING SCIENCE ABOUT ILLEGAL WILDLIFE TRADE

JULY 26, 2017 | 8:00 – 10:00

Hyatt Regency Cartagena | Navio Room

Presenters involved in ICCB symposium focused on illegal wildlife trade and wildlife trafficking are invited to this event designed to bring the world's leading interdisciplinary scientists together for lively and constructive dialogue on future directions for the science of illegal wildlife exploitation and trade. Key questions for discussion include: identifying/prioritizing scientific priorities and gaps; characterizing key challenges for and opportunities for connecting science with policymakers; and enhancing the impact of policy-relevant science. Breakfast, coffee and tea will be served. For more information email Meredith Gore at gorem@msu.edu.

Brought to you by Wildlife Acoustics and SCB Education and Student Affairs Committee



Society for Conservation Biology

SCB BUSINESS MEETINGS

MONDAY, 24 JULY

CONSERVATION MARKETING & ENGAGEMENT WORKING GROUP

13:30 – 14:30

Sala 101

TUESDAY 25 JULY

CONSERVATION GENETICS
WORKING GROUP

13:30 – 14:30

Sala 101

OCEANIA SECTION

18:30 – 19:30

Secretaría General Africa Section

18:30 – 19:30

Arsenal

LATIN AMERICA & CARIBBEAN
SECTION

18:30 – 19:30

Barahona 1

NORTH AMERICA SECTION

18:30 – 19:30

Barahona 2

ASIA SECTION

18:30 – 19:30

Sala 301

MARINE SECTION

18:30 – 19:30

Sala 302

EUROPE SECTION

18:30 – 19:30

Sala 303

WEDNESDAY 26 JULY

SCB CHAPTERS BUSINESS
MEETING

13:30 - 14:30

Sala 101

SECRETARÍA GENERAL
SOCIAL SCIENCES WORKING
GROUP

13:30 – 14:30

Sala 304

SOCIAL SCIENCE WORKING
GROUP

17:00 - 18:00

Sala 304

THURSDAY, 27 JULY

RELIGION AND
CONSERVATION BIOLOGY
WORKING GROUP

13:30 – 14:30

Sala 101

SCB GLOBAL MEMBERS
MEETING & STUDENT
AWARDS PRESENTATION

16:00 – 17:00

Gran Salon Ballroom



SCB CHAPTER ACTIVITIES @ ICCB

Are you a member of an SCB Chapter or wondering what SCB Chapters are all about? Check out one of our Chapter events!

SUNDAY, 23 JULY

CHAPTER MEMBERS FIELD TRIP

Join Chapter leaders and members for an organized tour of Cartagena, followed by lunch/snacks in a local cafe. Wear comfortable walking shoes and bring some cash. This is a great way to connect with Chapter members from all over the globe!

Contact organizer Andy Gregory for more information: agregor@bgsu.edu.

MONDAY, 24 JULY

CHAPTERS BOOTH

Local Chapter leaders and volunteers will be staffing the SCB Groups booth during coffee breaks and throughout the day. Stop by to learn more about local Chapters, how to start a Chapter, and what kinds of resources are available to Chapters. Take the opportunity to drop off your donations for the Chapter Silent Auction as well!

All day.

TUESDAY, 25 JULY

KNOWLEDGE CAFÉ

“Creating Connections among SCB Chapters: A dialogue on ‘what works’ in local Chapters.” This is an opportunity for Chapter leaders and members to learn from one another on how to run local SCB Chapters. We will discuss prearranged topics in a low-key, small group format facilitated by members of the Chapter Committee.

17:00-18:30

WEDNESDAY, 26 JULY

CHAPTER LUNCHEON AND ANNUAL BUSINESS MEETING

Join Chapters leaders and members and SCB global leadership for lunch (provided) and a discussion of chapter business and issues facing chapters. You will also learn more about how forming a chapter may benefit you, your organization and your region.

13:00 – 14:00 in Sala 101

THURSDAY, 27 JULY

LUNCHTIME WORKSHOP

“Starting and Supporting Local Chapters within SCB.” At this event, we will provide the resources necessary to start a new local SCB chapter, and will provide support and troubleshooting for established chapters from around the globe.

13:30-14:30 in Sala 103

THURSDAY 27 JULY

CHAPTER SILENT AUCTION AT THE CLOSING PARTY

Bid on items such as local crafts, books, and other one-of-a-kind items donated by SCB members from around the world! All proceeds benefit global chapters! If you have items to donate, please drop them off by noon on Wednesday with Chapter Committee members or at the SCB Booth.

18:30-23:30 in Explanada de San Francisco

ICCB 2017 SPONSORS



LEHMANN'S POISON FROG DIAMOND SPONSORS

MacArthur Foundation

MacArthur Foundation

The John D. and Catherine T. MacArthur Foundation supports creative people, effective institutions, and influential networks building a more just, verdant, and peaceful world.



National Geographic Society

The National Geographic Society is a leading nonprofit that invests in bold people and transformative ideas in the fields of exploration, scientific research, storytelling and education. Through our grants and programs, we aspire to create a community of change, advancing key insights about our planet. For more information, visit www.nationalgeographic.org.



JAGUAR PLATINUM SPONSORS



Conservation International

Building upon a strong foundation of science, partnership and field demonstration, Conservation International empowers societies to responsibly and sustainably care for nature, our global biodiversity, for the well-being of humanity.



ANDEAN CONDOR GOLD SPONSOR



World Wildlife Fund

Our mission is to conserve nature and reduce the most pressing threats to the diversity of life on Earth.



GREEN TURTLE BRONZE SPONSORS



British Ecological Society

Founded in 1913, the British Ecological Society is the world's oldest ecological society, with over 5,000 members worldwide. We generate, communicate and promote ecological knowledge and solutions through our internationally renowned scientific publications, meetings, grants, education and policy initiatives.



Case Studies in the Environment

New from University of California Press, Case Studies in the Environment is a journal of peer-reviewed environmental case study articles with slides and teaching notes, articles on case study pedagogy, and a preprint server for editor-reviewed case study slides. Visit cse.ucpress.edu to learn more.

ICCB 2017 SPONSORS (Cont'd)



Conservation X Labs

Conservation X Labs is a mission-oriented organization harnessing exponential technologies, innovation, and entrepreneurship to improve the efficacy, speed, cost, and scale of global conservation efforts with the aim of ending human induced extinction.



National Audubon Society

The National Audubon Society is a non-profit environmental organization dedicated to conservation. Located in the United States and incorporated in 1905, Audubon is one of the oldest of such organizations in the world and uses science, education and grassroots advocacy to advance its conservation mission.



Smithsonian-Mason School of Conservation

The Smithsonian-Mason School of Conservation offers residential, hands-on, interdisciplinary programs in conservation biology for undergraduate and graduate students as well as international professionals at the Smithsonian Conservation Biology Institute in Front Royal, Virginia. Leading conservation scientists provide exceptional learning experiences for students seeking education and training in effective conservation practice.



U.S. National Park Service

The National Park Service preserves unimpaired the natural and cultural resources and values of the national park system for the enjoyment, education, and inspiration of this and future generations. The Park Service cooperates with partners to extend the benefits of natural and cultural resource conservation and outdoor recreation throughout this country and the world.



Wildlife Acoustics

Wildlife Acoustics Inc. is the leading provider of bioacoustics monitoring technology for scientists, researchers, and government agencies worldwide.



World Wildlife Fund - Colombia

Our mission is to conserve nature and reduce the most pressing threats to the diversity of life on Earth.



Wildlife Conservation Society - Colombia

WCS, established in 1895, saves wildlife and wild places worldwide through science, conservation action, education, and inspiring people to value nature. With long-term commitments in dozens of landscapes, presence in nearly 60 countries, and experience helping to establish and manage 245 protected areas across the globe, WCS has amassed the biological knowledge, cultural understanding, and partnerships to ensure that vibrant, wild places and wildlife thrive alongside local communities.

A LA CARTE



Gordon and Betty Moore Foundation

The Gordon and Betty Moore Foundation fosters path-breaking scientific discovery, environmental conservation, patient care improvements and preservation of the special character of the Bay Area.

ICCB 2017 SPONSORS *(Cont'd)*

CONFERENCE APP



The Rufford Foundation

The Rufford Foundation is a UK registered charity which funds nature conservation projects across the developing world. To date the Foundation has awarded grants to over 4000 projects in 156 countries. @ruffordgrants

ICCB CAREER FAIR

WILEY

Wiley

Wiley is the world's largest society publisher, partnering with 900+ learned societies worldwide, and helping to advance their missions. Our Research business provides scientific, technical, medical, and scholarly journals as well as related content and services, for academic, corporate, and government libraries, learned societies, and individual researchers and professionals. <http://onlinelibrary.wiley.com>

ICCB PLENARY SPEAKER SPONSORS

Universidad de los Andes

The University of the Andes is an autonomous, independent and innovative institution that fosters pluralism, tolerance and respect for ideas, which seeks academic excellence and teaches its students a critical and ethical formation to strengthen in them the awareness of their social and civic responsibilities, as well as their commitment to the environment.

Humboldt Institute Colombia

The Alexander von Humboldt Biological Resources Research Institute is a civil non-profit corporation linked to the Ministry of Environment and Sustainable Development (MADS). The Institute was created in 1993 to be the research arm in biodiversity of the Environmental System (Sina). Within the framework of the United Nations Convention on Biological Diversity, ratified by Colombia in 1994, the Humboldt Institute generates the necessary knowledge to assess the state of biodiversity in Colombia and to make sustainable decisions about it.



ICCB EXHIBITORS



Advanced Telemetry Systems

Advanced Telemetry Systems (ATS) offers innovative and reliable wildlife tracking products designed for researchers world-wide. Our product line includes: VHF and Acoustic Transmitters, Iridium GPS Collars, GPS Loggers, VHF and Acoustic Receivers/ Dataloggers, Antennas, and more.



ARC Centre of Excellence for Environmental Decisions

The vision of the ARC Centre of Excellence for Environmental Decisions (CEED) is to be the world's leading research centre for solving environmental management problems and for evaluating the outcomes of environmental actions. We will benefit environmental science, policy and management across Australia and around the world by solving complex problems of environmental management and monitoring in a rapidly changing and uncertain world.



Center for Biological Diversity

The Center for Biological Diversity is a U.S. nonprofit conservation organization dedicated to the protection of endangered species

and wild places. We work through science, law and creative media to secure a future for all species, great and small, hovering on the brink of extinction.



Colorado State University, Conservation Leadership Through Learning Program

The Conservation Leadership through Learning Program is a master's degree which prepares leaders to address complex conservation issues at local, regional, and global scales. The program is built around principles of experiential learning, interdisciplinary instruction, and applied approaches. CLTL is the option for individuals seeking to make a difference in the lives and ecosystems of our planet.



Conservation Biology Institute

Conservation Biology Institute integrates rigorous science and technology in innovative ways to advance the conservation and recovery of biological diversity in its natural state. We collaborate with our partners to combine expertise in ecology, modelling, software engineering, and communications in delivering high-quality customized conservation solutions world-wide.

Conservation Evidence

Evidence to improve practice

Conservation Evidence

Conservation Evidence is a free, authoritative information resource designed to support decisions about how to maintain and restore global biodiversity. We summarise evidence from the scientific literature about the effects of conservation interventions, such as methods of habitat or species management.



Conservation International

Building upon a strong foundation of science, partnership and field demonstration, Conservation International empowers societies to responsibly and sustainably care for nature, our global biodiversity, for the well-being of humanity.



Conservation Leadership Programme

CLP is a partnership between the Wildlife Conservation Society, Fauna & Flora International, and BirdLife International. CLP directs project funding, training, networking, and mentoring to early career leaders from developing countries who are tackling conservation challenges. Since 1985, CLP has supported over 2,600 individuals who form a global network.



Fundacion Reserva La Esperanza

A new reserve and educational foundation in western Colombia has an affiliated corridor project under development. What began as a private forest reserve and bird lodge in the western Andes has now established a foundation to manage that forest, run education programs for the local schools, and work with national universities to develop ecological corridors.



Humboldt Institute

The Alexander von Humboldt Biological Resources Research Institute is a civil non-profit corporation linked to the Ministry of Environment and Sustainable Development (MADS). The Institute was created in 1993 to be the research arm in biodiversity of the Environmental System (Sina). Within the framework of the United Nations Convention on Biological Diversity, ratified by Colombia in 1994, the Humboldt Institute generates the necessary knowledge to assess the state of biodiversity in Colombia and to make sustainable decisions about it.



International Fund for Animal Welfare

Founded in 1969, the International Fund for Animal Welfare (IFAW) rescues and protects animals around the world. With projects in more than 40 countries, IFAW rescues individual animals, works to prevent cruelty to animals, and advocates for the protection of wildlife and habitats. For more information, visit www.ifaw.org.

Milsar

Milsar

Milsar manufactures high-tech animal telemetry devices. To provide you with high quality data, we focus on GPS tags with remote download, including GSM download. On this conference we will present our new 3.5g tag with GPS, solar panel and remote download! See you on our stand.

ICCB 2017 EXHIBITORS (Cont'd)



National Geographic Society

The National Geographic Society is a leading nonprofit that invests in bold people and transformative ideas in the fields of exploration, scientific research, storytelling and education. Through our grants and programs, we aspire to create a community of change, advancing key insights about our planet. For more information, visit www.nationalgeographic.org



Open Standards/Miradi Software

The Open Standards for the Practice of Conservation unite common concepts, approaches, and terminology in conservation project design and management to help practitioners improve the practice of conservation. Miradi software is used by leading conservation NGOs, foundations, and government agencies worldwide to design, monitor, and adaptively manage projects using the Open Standards.



Oxford University Press

Oxford University Press publishes some of the most respected and prestigious books and journals in the world. Visit our booth or www.oup.com for more information.



Programa Riqueza Natural

Programa Riqueza Natural is a 5-year program financed by the United States Agency for International Development (USAID) that supports the Government

of Colombia in making significant progress to preserve tropical dry forests in the Caribbean, as well as grasslands and freshwater ecosystems in the Orinoquia. Its conservation strategies aim to strengthen protected areas, green businesses and governance.



Rainforest Trust

Since 1988, Rainforest Trust has focused on establishing protected areas for Threatened species across the tropics in partnership with local NGOs. We have protected 16 million acres to date. The SAVES Challenge is providing \$100 million by 2020 to support designations and land purchase of critical sites for endangered species.



SavingSpecies

SavingSpecies stops extinctions by helping local nonprofits buy degraded and strategic land to Connect, Protect, and Restore forests—CPR for Earth. Our distinguished Science Board, including Stuart Pimm, E.O. Wilson, Tom Lovejoy and Peter Raven select projects using the best science to save the most biodiversity efficiently. Please visit www.savingspecies.org



Smithsonian-Mason School of Conservation

The Smithsonian-Mason School of Conservation offers residential, hands-on, interdisciplinary programs in conservation biology for undergraduate and graduate students as well as international professionals at the Smithsonian Conservation Biology Institute in Front Royal, Virginia. Leading conservation scientists provide exceptional learning experiences for students seeking education and training in effective conservation practice.

Society for Conservation Biology - Marine Section

The SCB Marine Section is a global and inclusive community of people interested in marine conservation, including students, educators, practitioners, professionals, and other interested stakeholders. The Section is a leader in the effort to protect and conserve Earth's marine biological diversity.



The Field Museum

Since 1999, researchers working under the aegis of the Field Museum's conservation programs have developed a large number of free, public tools intended to accelerate conservation action. These include photographic field guides, micro-herbaria, and online tools for identifying plants in the Neotropics and in the Chicago region. Today these tools are used by nearly 100,000 people every year and recognized around the world as valuable assets for conservation biologists, researchers, park guards, indigenous groups, teachers, students, and naturalists.



The Nature Conservancy

The Nature Conservancy is the leading conservation organization working around the world to protect ecologically important lands and waters for nature and people.



ICCB 2017 PUBLISHING OPPORTUNITY

SUBMIT YOUR MANUSCRIPT FROM ICCB

A primary goal of SCB is to disseminate robust scientific findings as part of a global effort to conserve biological diversity. We encourage you to contribute to this pursuit by submitting a manuscript based on the research you present at ICCB 2017 to SCB's journal *Conservation Biology* or the SCB-affiliated journal *Conservation Letters*.

Accepted manuscripts will be published in a regular issue of the journal and then compiled into a special 'online-only' virtual issue featuring the best research presented at ICCB 2017. Thus, articles will appear in two places, a regular issue and a virtual issue. Please note

that ICCB submitted manuscript(s) will go through the normal journal's peer-review process. The accepted ICCB articles will fit the scope and rigorous quality standards of each journal.

At least six papers must be accepted for a virtual issue to come to fruition, so please go ahead submit and spread the word.

In your submission cover letter, state that the manuscript is a result of research you presented at ICCB 2017. Publication will be online soon after acceptance and papers will be compiled in the virtual issue in late 2018.

SUBMISSION DEADLINE: 1 OCTOBER 2017



Conservation Biology is the flagship journal of the Society for Conservation Biology. A special virtual issue of *Conservation Biology* and / or *Conservation Letters* may be published that highlights research presented at ICCB 2017.

ICCB 2017 EXHIBITORS (Cont'd)



University of Georgia, Center for Integrative Conservation Research

The University of Georgia's Center for Integrative Conservation Research promotes an integrative approach across social and ecological sciences to address contemporary environmental challenges. Through research and graduate programs we also seek to engage with policy and practitioner communities to support effective and equitable solutions.



Wildlife Acoustics

Wildlife Acoustics Inc. is the leading provider of bioacoustics monitoring technology for scientists, researchers, and government agencies worldwide.



Wildlife Conservation Society - Colombia

The Wildlife Conservation Society saves wildlife and wild places worldwide. We do so through science, global conservation, education and the management of the world's largest system of urban wildlife parks, led by the flagship Bronx Zoo. Together these activities change attitudes towards nature and help people imagine wildlife and humans living in harmony. WCS is committed to this mission because it is essential to the integrity of life on Earth.

SCB CHAPTERS SILENT AUCTION!

Since 2012, the SCB Chapters Committee has hosted a Silent Auction at ICCB and the North America Congress for Conservation Biology to raise funds that directly enable grassroots SCB leaders from our Global Chapters to attend SCB congresses globally and to further conservation science and practice.

Help SCB Chapters and bid on an item at the ICCB Closing Party.

Chapters Silent Auction at the ICCB 2017 Closing Party

**The Cloister Terraces
Thursday 27 July 2017
18h30-23h30**



ICCB 2017 EXHIBITORS (Cont'd)



World Wildlife Fund

WWF's mission is to stop the degradation of our planet's natural environment, and build a future in which people live in harmony with nature.

World Wildlife Fund - Education for Nature Program

WWF's Russell E. Train Education for Nature Program (EFN) advances conservation by investing in individuals and organizations working on complex environmental challenges affecting their communities across Africa, Asia, and Latin America. Since 1994, EFN has provided support to more than 1,725 individuals and 600 organizations training 40,000 community members.



Zoological Society of London

Founded in 1826, the Zoological Society of London (ZSL) is an international scientific, conservation and educational charity whose mission is to promote and achieve the worldwide conservation of animals and their habitats. Our mission is realised through our groundbreaking science, our active conservation projects in more than 50 countries and our two Zoos, ZSL London Zoo and ZSL Whipsnade Zoo.



ICCB 2017 QUESTAGAME

SCB is excited to partner with **QuestaGame**, the real-world mobile game where you compete to save life on earth. QuestaGame is a global social enterprise that believes in working (and playing) together to protect life on our planet for a sustainable future.



QuestaGame

As a participant, you will receive a QuestaGame account with your registration for ICCB. Document your biodiversity observations during ICCB with the QuestaGame app on your mobile device to compete for prizes during the meeting. When you use QuestaGame to log your plant and wildlife observations, you will contribute to the documentation of local biodiversity at this year's ICCB venue. You will also have the opportunity to register as a biodiversity expert on QuestaGame.

For every organism that you identify on QuestaGame, SCB will receive a small donation. Our goal for this partnership with QuestaGame is to contribute to the biodiversity databases at ICCB venues, help meeting participants develop a sense of place by engaging with local biodiversity through QuestaGame, and develop bioexperts who can contribute to QuestaGame's citizen science database of global biodiversity. Thank you for playing the game and contributing your expertise!



ARTIST EXHIBITORS

AleDesign

Based in Medellin, Colombia, AleDesign features illustrations of wildlife in handicrafts including notebooks, cards, placemats, pillows and wooden prints.

Canoa Accesorios

Based in Colombia, Canoa Accesorios produces unique jewelry inspired by the biodiverse marine ecosystems of the region.

Dao Van Hoang

An artist from Ho Chi Minh City, Vietnam, Hoang creates original acrylic paintings of some of the world's most dynamic wildlife species.

Kuankua

Kuankua is a Colombian enterprise that produces handmade souvenirs in hand painted recycled wood, promoting and highlighting biodiversity.

Proyecto Titi

A non-profit based in Colombia, Proyecto Titi aims to preserve the endangered Cotton-top Tamarin, found only in the tropical forests of Colombia. Proyecto Titi produces recycled plastic bags and Teddy tights to raise awareness and support for continued protection of the species.

Valentina NF Ilustracion Cientifica

A biologist and illustrator based in Colombia, Valentina Fernandez Nieto produces realistic wildlife prints featuring terrestrial and marine species.

CONTRIBUTORS

Facultad de Estudios Ambientales Y Rurales Pontificia
Fundacion Natura Colombia
Fundacion Tortugas Del Mar
Panthera

Pontificia Universidad Javeriana
Smithsonian
Universidad de Cartagena



Society for Conservation Biology



SCB EVENT CODE OF CONDUCT

SCB works to promote a welcoming environment at its meetings that is safe, collaborative, supportive, and productive for all attendees, including volunteers, exhibitors, and service providers, and that values the diversity of views, expertise, opinions, backgrounds, and experiences reflected among the conference attendees. To that end, we expect meeting attendees to abide by the following Code of Conduct:

Expected Behavior

- Treat everyone with respect and consideration.
- Communicate openly and thoughtfully with others and be considerate of the multitude of views and opinions that are different than our own.
- Be respectful in your critique of ideas.
- Be mindful of your surroundings and of your fellow participants. Alert SCB staff if you notice a dangerous situation or someone in distress.
- Respect the rules and policies of all venues associated with the meeting.
- Uphold and support SCB's commitment and actions to improve the events environmental and social impacts.

Unacceptable Behavior

- Harassment, intimidation or discrimination in any form.
- Physical or verbal abuse of any attendee,

speaker, volunteer, exhibitor, SCB staff member, service provider or other meeting guest.

- Examples of unacceptable behavior include, but are not limited to inappropriate comments related to gender, sexual orientation, disability, physical appearance, body size, race, religion, national origin; inappropriate use of nudity and/or sexual images in public spaces or in presentations, threatening or stalking any attendee, speaker, volunteer, exhibitor, SCB staff member, or service provider.
- Disruption of talks at the meeting or other associated events organized by SCB.

Consequences

- Anyone requested to stop unacceptable behavior is expected to comply immediately.
- SCB staff (or their designee) or security may take any action deemed necessary and appropriate, including immediate removal from the meeting without warning or refund.
- SCB reserves the right to prohibit attendance at any future meeting.

Reporting Unacceptable Behavior

If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately notify an SCB staff member on-site (in-person or by email). Contact information is available on the congress website.



TOWARDS A SUSTAINABLE ICCB

ICCB SUSTAINABLE EVENT VISION

Sustainability is at the core of the Society for Conservation Biology's (SCB) mission to help create a world where people understand, value, and conserve Earth's biological diversity.

Our mission for ICCB 2017 is to work together with our partners to identify and implement actions that improve the event's social and environmental impact, and set a benchmark to drive future improvements for SCB congresses. With this commitment, we are continuing our efforts to solidify our position as a leading sustainable organization, working towards achieving an internationally recognized sustainable meeting.

OUR APPROACH

In collaboration with sustainable event management experts MCI, a sustainable event framework has been developed based on the international standards.

In close collaboration with our key partners and supplier we will be working together to achieve the following goals:

OUR GOALS

The following overall objectives have been identified to guide the SCB's global approach to events. Individual events will have additional and specific objectives based on the challenges and opportunities facing that market.



"RAP GUIDE" ARTIST
BABA
BRINKMAN
TO PERFORM AT ICCB

Baba Brinkman is a hip-hop artist originally from Vancouver, Canada, whose **Rap Guide to Wilderness** and **Rap Guide to Climate Chaos** albums bring environmental sustainability and biodiversity messages to a wide audience through music and rap poetry.

Called "astonishing and brilliant" by the New York Times, Baba has appeared at several TEDx events and performed on MSNBC's The Rachel Maddow Show, and has won several awards for his hip-hop theatre productions.

Before performing scientifically "peer reviewed rap", his former job in Canada was reforestation, and he has personally planted more than one million trees. In Cartagena, Baba will perform hip-hop songs to inspire and spread the conservation message, and even some original raps about ICCB!

REDUCE

- Minimize material use and waste while increasing waste diversion
- Reduce energy usage and greenhouse gas emissions, and offset emissions to be carbon neutral

RETHINK

- Switch to more sustainable materials and design for lower event environmental footprint
- Engage key stakeholders to improve the sustainability performance of our events
- Offer healthy, local, culturally appropriate and responsibly sourced food and beverages
- Support virtual participation and engagement

REGENERATE

- Raise awareness and inspire development and actions that respects biodiversity, conservation and local ecosystem regeneration

RESPECT

- Ensure a good working environment for the workers involved, ensuring regulatory compliance and appropriate safety conditions
- Create an environment that is diverse, open and accessible to all participants

REPORT

- Assess and transparently report the environmental, social and economic impacts of our events



ICCB CAREER FAIR

**WEDNESDAY, 26 JULY
18:30 – 20:30**

**CARTAGENA DE INDIAS
CONVENTION CENTER**

Light refreshments will be served

Attention students, early career professionals, and job seekers: Join us at the 2nd ICCB Career Fair to network with companies, universities and organizations in conservation. Come to talk about funding opportunities, fellowships, graduate and postdoctoral positions, job openings and more. Don't forget your résumé, CV and business cards!

HIGHLIGHTS OF THE CAREER FAIR INCLUDE:

- a CV Clinic, hosted by SCB's Freshwater Working group, available to help you refine and strengthen your CV,
- a speed-mentoring event where students and early-career professionals will have a series of quick, small-group discussions with seasoned professionals from various sectors of the conservation field
- an introduction to the SCB Career Center by a representative from Wiley, publisher of SCB's journal *Conservation Biology*

THE FOLLOWING ORGANIZATIONS ARE SLATED TO HOST TABLES AT THE CAREER FAIR:

- Facultad de Administracion | Gerencia del Desarrollo Sostenible, Universidad de los Andes
- Facultad de Estudios Ambientales y Rurales | Pontificia Universidad Javeriana
- The Field Museum
- Open Standards/Miradi Software
- Smithsonian-Mason School of Conservation
- University of Georgia
- Conservation X Labs
- Proyecto Titi
- Zoological Society of London
- Conservation Leadership Programme
- Education for Nature Program
- David H. Smith Conservation Research Fellowship Program
- National Geographic Society
- Colorado State University
- University of California Press
- British Ecological Society

SPEED NETWORKING AT THE ICCB CAREER FAIR

EXPAND YOUR PROFESSIONAL CONTACTS AT THE FIRST EVER ICCB SPEED NETWORKING EVENT!

Attention early career conservation scientists, including undergraduates, graduate students, postdocs, and early career professionals. Please join the SCB Education and Student Affairs Committee for a Speed Mentoring session at ICCB on **Wednesday, 26 July at 18:30** in the Cartagena de Indias Convention Center.

Speed mentoring is an opportunity for individuals in the early stages of their professional lives (the mentees) to meet for a small group discussion with an experienced individual (the mentor). During this session, mentors will help you to identify the specific academic training and skills that you might need to advance to the next step of your career.

Speed Mentoring focuses the discussion on your personal circumstances instead of the mentor's general life experiences. Although the mentoring session will be short, there is always the possibility of developing a longer term relationship with the mentors you meet, so please bring your business cards and contact information to exchange with the mentors. **For more information on Flash Mentoring please visit www.flashmentoring.com.**



ICCB PLENARY TALKS

ICCB features four morning plenary talks from leading conservationists Brigitte Baptiste, Robin Chazdon, Arun Agrawal, and E.J. Milner-Gulland. All talks start at 8:30am in Grand Salon Barahona.

MONDAY, 24 JULY

8:30-9:30

GRAND SALON BARAHONA

Speaker: Brigitte Luis Baptiste, Ph.D

GREENING COLOMBIA'S PEACE PROCESS: A WAY OF THINKING ABOUT ENVIRONMENTAL PROBLEMS

Brigitte examines new ways of thinking about conservation and environmentalism in the context of the ongoing peace process in Colombia.

About the Speaker: Brigitte Baptiste is the General Director of the Institute for the Research on Biological Resources at Alexander von Humboldt Institute in Bogota, Colombia. She has worked as a researcher at the Rural Studies Unit of the Faculty of Economics at Javeriana University, where she began her teaching career in the Master's program for rural development and environmental management. She has participated in numerous national projects on conservation and environmental planning, cultural landscapes, analysis of territorial transformation processes, ecological-economic history of productive systems, multicultural analysis of use and management of biodiversity, biocomplexity, bio-epheology, and biopolitics. She is also interested in gender and culture themes.

She is a member of the Multidisciplinary Expert Panel of the Intergovernmental Science and Policy Platform on Biodiversity and Ecosystem Services (MEP / IPBES) representing Latin America. Brigitte earned a Masters in Latin American Studies from the University of Florida.

TUESDAY, 25 JULY

8:30-9:30

GRAND SALON BARAHONA

Speaker: Robin Chazdon, Ph.D

IS RESTORATION THE NEW CONSERVATION? PARADIGMS, PRACTICE, AND PEOPLE

Restoration and conservation are often viewed as contrasting approaches with distinct values, objectives, professional societies, conferences, and journals. But both approaches are required to protect and manage ecosystems and their unique biodiversity, and to ensure a flow of nature's contributions to people. Robin will discuss how important paradigms and practices can transform a conservation focus to a restoration focus.

About the Speaker: Robin Chazdon is Professor Emerita in the Department of Ecology & Evolutionary Biology at the University of Connecticut, USA. Her long-term collaborative research focuses on successional pathways, biodiversity in human-managed landscapes, and tropical forest restoration. She currently serves as the Executive Director of the Association for Tropical Biology and Conservation and Director of the NSF-funded Research Coordination Network PARTNERS (People and Reforestation in the Tropics), focused on understanding the social and ecological drivers of reforestation in the tropics. After 28 years as a university professor, she has taken on new positions as a Research Professor with the Tropical Forests and People Centre at the University of the Sunshine Coast, Australia and as Senior Research Associate with the International Institute of Sustainability in Rio de Janeiro, Brazil. She recently became a Senior Fellow with the World Resources Institute's Global Restoration Initiative. She is an author of over 140 peer-reviewed scientific articles and co-editor of two books on tropical forests. Her sole-authored book "Second growth: The promise of tropical forest regeneration in an age of deforestation" was published in 2014.

WEDNESDAY, 26 JULY

8:30-9:30

GRAND SALON BARAHONA

Speaker: Arun Agrawal, Ph.D

**PERVERSE CONSERVATION OUTCOMES OF
REWARDS-BASED INTERVENTIONS**

Rewards-based approaches to conservation and environmental sustainability have gained ground over the past two decades. Advocates of these approaches highlight how compensation – conditional and unconditional – can strengthen environmental initiatives, and can make up for the deficiencies of control and regulation based approaches or of approaches that seek to improve environmental awareness to persuade citizens to take environmentally appropriate actions. Using time-series panel data from India, Arun's talk will examine the effectiveness of rewards based approaches to enhance environmental motivations, actions, and outcomes.

About the Speaker: Arun Agrawal is a professor in the School of Natural Resources & Environment at the University of Michigan. He emphasizes the politics of international development, institutional change, and environmental conservation in his research and teaching. He has written critically on indigenous knowledge, community-based conservation, common property, population resources, and environmental identities. Since 2013, Agrawal has served as the editor-in-chief of World Development and his recent work has appeared in Science, PNAS, Conservation Biology, and Development and Change, among other journals. Preceding his work at U-M, Agrawal was educated at Duke University, the Indian Institute of Management, and Delhi University and has held teaching and research positions at Yale, Florida, McGill, Berkeley, and Harvard among other universities. Arun is the coordinator for the International Forestry Resources and Institutions network and is currently carrying out research in central and east Africa as well as South Asia.

THURSDAY, 27 JULY

8:30-9:30

GRAND SALON BARAHONA


Speaker: E.J. Milner-Gulland, Ph.D

**RETHINKING CONSERVATION IN AN
UNCERTAIN WORLD**

In order to conserve effectively, we need to understand the dynamic and multi-scale social-ecological systems we are working in, design effective interventions, monitor and evaluate their outcomes and learn from our experiences. This is well understood in theory, but in practice a major rebalancing is needed towards the design, evaluation and learning components of this approach. This requires a more predictive approach to conservation and a more nuanced understanding of what "evidence" actually is, and for whom we are generating it. We need to be bold and innovative in our use of models as well as tools from other disciplines, and think at both the individual and system scales. We also need to stop ignoring or sidestepping uncertainties, but embrace them so that we can design robust interventions. E.J. will illustrate these points through reflecting on her own mistakes, misconceptions, might-have-beens and insights, over 25 years of studying natural resource use, from hunters through to consumers, local and international, legal and illegal.

About the Speaker: E.J. Milner-Gulland is Tasso Leventis Professor of Biodiversity in the Department of Zoology at the University of Oxford and Director of the Interdisciplinary Centre for Conservation Science. She has a particular interest in developing and applying methods for understanding and predicting human behaviour in the context of local resource use in developing countries, and improving the effectiveness of incentive-based mechanisms such as payment for ecosystems services and biodiversity offsetting, in the marine and terrestrial realms.

Her research group works at the interface of social and ecological systems, using a range of methodological approaches to address key issues in current conservation, including fieldwork and modelling in the ecological, social and behavioural sciences. It has three themes: understanding resource user incentives; planning for effective and socially just conservation; and accounting for social-ecological system dynamics. The group works in the terrestrial and marine realms, with practitioners who are implementing interventions, to ensure that they are designed, carried out and monitored in a way that leads to the desired outcomes from both conservation and social justice perspectives.



ICCB FORUM DISCUSSIONS

ICCB features two evening Forum Discussions that are open to all attendees.

MONDAY, 24 JULY

17:00-18:30

GRAND SALON BARAHONA

Panelists: Alex Dehgan, Chris Wood, and Jen Chapman

Moderator: Morena Mills

INSIGHTS FROM CONSERVATION ENTREPRENEURS

You might think that protecting species competing for resources with over seven billion people is an insurmountable task, yet for some people opportunities are everywhere. These people can advance conservation projects in a world of political instability, rapidly changing technology and human desires. The panel celebrates these conservation entrepreneurs who manage to identify and exploit opportunities for biodiversity science and conservation that few people saw coming, and in doing so are helping to drive large biodiversity gains.

About the Panelists:

Alex Dehgan is the CEO and co-founder of the new startup Conservation X Labs, which is focused on harnessing exponential technologies, open innovation, and entrepreneurship for addressing conservation challenges. CXL's work includes launching the first Grand Challenge for Conservation on Aquaculture, creating the first digital makerspace, and developing a new handheld microfluidics based DNA field scanner for combatting wildlife trafficking, detecting disease and invasive species, and supporting traceability. Dr. Alex Dehgan recently served as the Chief Scientist at the United States Agency for International

Development, with rank of Assistant Administrator.

Chris Wood is the Assistant Director of Information Science at the Cornell Lab of Ornithology where he and his team have developed a novel approach to citizen science by engaging diverse communities of people interested in watching birds around the world, conservation biologists, quantitative ecologists, statisticians, computer scientists, application developers, and data administrators. eBird data are openly available and used by a broad spectrum of students, teachers, scientists, NGOs, government agencies, land managers, and policy makers. Participants have collectively spent more than 30.4 million hours collecting effort-based checklists, amassing more than 400 million records, which accounts for more than one-third of all data in GBIF.

Jen Chapman is Blue Ventures' Country Coordinator in Belize, where she has led research and conservation programmes since 2011. A key part of this has been establishing strategies to manage invasive lionfish, including the promotion of markets for lionfish meat and fins. Underpinned by a human-centered approach, Jen believes that lionfish markets can deliver socioeconomic benefits to communities, whilst also achieving conservation objectives of lionfish control. Jen believes that innovative, sustainable, market-based approaches are required to solve problems associated with depletion of marine resources – the recovery of which are inextricably linked to human health, wealth and happiness. She became a Kinship Conservation Fellow in 2014.

Forum Moderator Morena Mills is a Senior Lecturer and Director of the Conservation Science Masters at Imperial College London. She undertook her PhD and

Postdocs at James Cook University and the University of Queensland respectively where she focused on how to improve the implementation and impacts of conservation actions for species and people. Her current research focuses on how, when and why interventions with positive biodiversity outcomes spread around the world, critical to empower donors and practitioners to catalyze conservation at scale.

WEDNESDAY, 26 JULY

17:00-18:30

GRAND SALON BARAHONA

**POST-CONFLICT AND CONSERVATION
IN COLOMBIA: CHALLENGES AND
OPPORTUNITIES**

After battling for 50 years, the Colombian government and the Revolutionary Armed Forces of Colombia (FARC) signed a peace agreement in late 2016. This agreement brings about opportunities for rural economic development and land restitution for those who had lost their land as a result of conflict. Details of these decisions can have large implications for biodiversity conservation as Colombia is one of the most biologically rich countries on earth. This discussion will bring together scientists, indigenous leaders and government officials who will focus on the challenges and opportunities for conservation in Colombia's post conflict era.

Panelists: Brigitte Baptiste, Silvia Calderon, Ati Quigua, Dalia Mina Valencia, Danilo Villafañe Torres, Daniel Garcés Aragón

Moderator: Ximena Rueda Fajardo

About the Panelists:

Brigitte Baptiste is the General Director of the Institute for the Research on Biological Resources at Alexander von Humboldt Institute in Bogota, Colombia. She has worked as a researcher at the Rural Studies Unit of the Faculty of Economics at Javeriana University, where she began her teaching career in the Master's program for rural development and environmental management. She has participated in numerous national projects on conservation and environmental planning, cultural landscapes, analysis of territorial transformation processes, ecological-economic history of productive systems, multicultural analysis of use and management of biodiversity, biocomplexity, bio-epheology, and biopolitics. She is also interested in gender and culture themes.

Silvia Calderon is Deputy Director of Environmental Sustainable Development at National Department of Planning (DNP). Silvia is an economist from McGill University and holds a Master's degree in public administration from Columbia University. She ensures that environmental policies and disaster risk management are included in development planning. To this end, she advances actions related to the knowledge, use and conservation of biodiversity; conservation



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and management of protected and strategic areas; integrated management of water resource and oceanic, coastal and island spaces; prevention and mitigation of environmental degradation and climate change; sustainable and competitive production development; economic and environmental modelling and valuation; territorial environmental planning; risk reduction and disaster financial protection mechanisms. She is currently designing the sustainability fund which will provide financial support to post-conflict and peace-building projects.

Ati Quigua is an indigenous leader (Arhuaca), Colombian pacifist and environmentalist. She grew up in the mountains in the Sierra Nevada of Santa Marta under the care of her grandmother, where she attended elementary and secondary school. She moved to Bogotá to pursue her college education. Her mother's displacement by paramilitary groups prompted her activist career. At a very young age she became the first indigenous woman to be chosen to occupy a seat in the Council of Bogotá. She has been a leader and pacifist, promoting respect for human rights and the rights of nature in national and international spaces. She has extensive experience defending ethnic communities, women and young people and formulating public policies. She is the winner of the International Prize Daniele Po 2016, an international recognition for women and associations working for the environment and human rights.

Dalia Mina Valencia, Afro-Colombian leader, Consejo Comunitario de la Cuenca del Río Yurumanguí. She was born in the rural area of Buenaventura, in the beautiful river of Yurumanguí. She is an auxiliary in health, and since 1991 has been a community leader fighting for the well-being of black people. She was one of the founders of the Black Community Process, and was director of the territorial ethnic organization. She became the legal representative of the community council at Yurumanguí, where she has been a tireless fighter for the defense of her territory and the life of the Yurumanguireños. She has helped to strengthen other community councils in defense of their territories. She believes that the conservation and rescue of traditional practices is a key element of peoples' struggle. Currently she is part of the Yurumanguí River government congress.

Danilo Villafañe Torres is a leader with the Arhuaco Indigenous Peoples of Colombia, President of the Confederación Indígena Tayrona, and advisor to the Colombian Ministry of Environment and Sustainable Development. He is known within his Arhuaco community as the "chancellor" because of his

outstanding capacity to connect with the rest of the country and with the world. For many years he has sought to be heard in his struggle to stop the deterioration of the earth, of humanity, of nature. He has said "In the codes of the Sierra we have worked hard and we have a source of inspiration that are the mamos. Through them they maintain the knowledge and the traditions on a subject of fundamental concern for the humanity, that is the global warming and all the environmental deterioration. There must be a very strong voice in environmental matters in Colombia, where there are more than 30 million hectares of indigenous territories recognized as safeguards. In these territories 60 percent of diversity is conserved, but there is no leading role in respect to them. Rather, these areas are threatened by mining, drug trafficking and illicit crops."

Daniel Garcés Aragón – Afro-Colombian leader, Administrator of Agribusiness Companies of the Popayán University Foundation, lawyer of the La Gran Colombia University, Master in Human Rights, Interculturality and Development of the Pablo de Olavide University, Seville, Spain; and candidate to Doctor in Legal and Political Sciences of the same university. Daniel is a leader of the Afro-Colombian social movement and has been one of the most effective activists in promoting community, academic and institutional actions based on the realization of rights of the Afro-Colombian people, in matters such as formation in identity and youth organization, human rights, conscientious objection to compulsory military service, environmental and territorial rights agenda. He coordinated the technical team that formulated the proposed comprehensive regulation of chapters IV, V and VII of Law 70 of 1993 and has participated and promoted initiatives for strengthening the Afro-descendant movement in Colombia and the Americas.

Moderator Dr. Ximena Rueda Fajardo received a BA in Economics from Universidad de Los Andes, a Master in City Planning from MIT and a Ph.D. in geography from Clark University. She did postdoctoral work at Stanford University on corporate strategies for sustainable sourcing for major tropical commodities. She has worked for The Colombian Federation of Coffee Growers, the Colombian government and international aid programs. Currently she is associate professor at the School of Management at Universidad de Los Andes. Ximena's work focuses on understanding land use changes, its drivers and impacts, with particular attention to rural communities in Latin America.



ICCB DIVERSITY LUNCH FORUMS

Diversity is about strengthening the movement we are dedicated to by making it resilient and capable of adapting, regardless of what we face in the future.

—Emily Enderle, Earthjustice

Diversifying the conservation movement means more than simply recruiting people from “diverse” backgrounds to enter traditional conservation fields. It also means understanding better how all people relate to, engage with, and care about the environment. And it means understanding how environmental threats—from water pollution to severe weather—impact all individuals and communities (Bonta et al. 2015)

Historically, the conservation movement has been primarily dominated by few groups. This failure to include other segments of society is a serious limitation. It reduces the reach and impact of all groups working in conservation. And it also could mean that the support of nature and conservation by people from diverse backgrounds is neglected or ignored.

We believe that inclusive efforts that incorporate multiple views of valuing and practicing conservation are a key aspect to success in addressing conservation challenges (Bonta et al. 2015).

If you ever wonder how conservation looks like when it includes everyone’s needs and thoughts – then please, join us, and listen to the sound of inclusive conservation!

MONDAY, 24 JULY

13:00-14:30

BARAHONA 3

Speakers

- Dalia Mina Valencia, Afro-Colombian leader, Consejo Comunitario de la Cuenca del Río Yurumanguí
- Danilo Villafañe Torres, Leader with the Arhuaco Indigenous Peoples of Colombia, President of the Confederación Indígena Tayrona, and advisor to the Colombian Ministry of Environment and Sustainable Development
- Martin von Hildebrand, Fundación Gaia Amazonas

CONSERVATION, INDIGENOUS PEOPLE AND COMMUNITY LEADERS: FROM RIGHTS TO NATURAL RESOURCE MANAGEMENT

Indigenous peoples and local communities hold formal rights to 18 percent of global lands — representing well over 20 percent of forest carbon stores and much of the Earth’s biodiversity (Nature Conservancy 2017). With their important traditional knowledge and vast experience in environmental stewardship, indigenous peoples and local communities are uniquely positioned as conservation stakeholders, advocates and leaders.

The plenary will discuss potential synergies between indigenous/local communities and conservation biologists. What are the strategies of indigenous and traditional peoples to sustainable management of their resources, and how can these strategies help to maintain, use, and strengthen their traditional ecological knowledge? How have they overcome obstacles? What are the main issues they still face? What can we do as part of conservation organizations to help? How can we fully respect indigenous and traditional peoples’ human and development rights, and recognize the importance of conservation of their cultures as we work towards species conservation goals?

TUESDAY, 25 JULY

13:00-14:30

BARAHONA 4

Speaker

- Sister Mary David Walgenbach, Benedictine Monastery of Holy Wisdom

RELIGION & CONSERVATION: A PLACE FOR COLLABORATION

Religion and environment, and the interaction between the two, is a recognized and researched academic subject at universities around the world. Secular organizations are increasingly recognizing the need to work with non-traditional partners. There is an acknowledgement of the importance of connecting to what really motivates people to protect their environment in order to create successful environmental programs.

Conservation goals are not being achieved at the necessary scale to address the escalating global environmental threats. Conservation success depends upon changing human values and behavior, and religions often shape people's identity, values, and conduct. This has led to an increased awareness of the vital role of civil society in driving changes, and religion is the largest sector of civil society in every country. Religion-based strategies to environmental issues are often effective and sustainable.

This forum will focus on the relationship between religious doctrines of stewardship for land and nature and conservation biology. How can conservation biologists increase their work with various religious groups? How can conservation biologists and religious leaders work together while respecting their different opinions? What lessons about land stewardship can conservation biology gain from various religious doctrines?

Thank you!

Thank you for your Support!

Since 2008, the Rufford Foundation has been a sustaining sponsor of the International Congress for Conservation Biology and other SCB congresses. We thank the Rufford Foundation for its continuing support in allowing us to do the important work of advancing the science and practice of conserving the Earth's biodiversity.

THURSDAY, 27 JULY

13:00-14:30

BARAHONA 3

Speakers

- Brigitte Baptiste, Instituto von Humboldt
- Cynthia Malone, American Museum of Natural History

RACE, CLASS, GENDER AND CONSERVATION

We care deeply about our environment - we also want to be accountable, to make a difference, and to be catalysts for a movement in which equity, diversity, and inclusion are the norm—not the exception. We all have painfully observed that when diversity is not valued, life is diminished. There is a necessity of difficult dialogues about diversity, inclusion, and equity in conservation, and we eagerly want to open the conversation. There is also a need to create safe spaces in communities and organizations where we can have those discussions and think collectively about constructive next steps. There is an awareness that dialogue alone is not enough. Cultural norms need to shift. New leadership must be developed. Power must be shared. The current civil unrest rooted in racism, bigotry, and other social injustices around the world shows how urgent it is to create a more diverse conservation movement (Bonta et al 2015).

This forum on race, class, gender, and conservation addresses the need for equity, diversity and inclusion in conservation (practice and study), challenges within the field of conservation biology for equity, diversity and inclusion, and the role of the individual in this process.



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SCB 2018 GROUP MEETINGS

SCB Sections represent various geographic regions and disciplines around the globe. The Sections strive to facilitate conservation biology and educate groups in their specific regions or disciplines. In order to do this, symposia are often organized at SCB global congresses, but Sections also sponsor their own

regional congresses. The first regional congress was held by the SCB Asia Section in 2005 in Kathmandu, Nepal. This was followed by the first European Congress of Conservation Biology (ECCB) from the SCB Europe Section in Eger, Hungary. In recent years,

SCB Sections have held regional congresses every other year. Attendance at regional congresses varies from hundreds to more than 1,000 participants. Many SCB Sections are planning regional congresses in 2018. We hope you will join us!



EUROPEAN CONGRESS FOR CONSERVATION BIOLOGY (ECCB)

CONSERVATION SCIENCE, POLICY, AND PRACTICE:
CONNECTING THE URBAN TO THE WILD

Jyvaskyla, Finland
June 12-15, 2018

OCEANIA CONGRESS FOR CONSERVATION BIOLOGY (OCCB)

CONSERVATION IN A CHANGING WORLD

Te Papa Tongarewa, Wellington, New Zealand
July 2-6, 2018

NORTH AMERICA CONGRESS FOR CONSERVATION BIOLOGY (NACCB)

CONSERVATION SCIENCE, POLICY, AND PRACTICE:
CONNECTING THE URBAN TO THE WILD

Westin Harbour Castle Conference Centre
Toronto, Ontario, Canada
July 21-26, 2018

LATIN AMERICA AND CARIBBEAN CONGRESS FOR CONSERVATION BIOLOGY (LACCB)

RAINFOREST TO REEF: STRENGTHENING
CONSERVATION CONNECTIONS BETWEEN THE
CARIBBEAN AND THE AMERICAS

St. Augustine Campus of the University of the
West Indies
Trinidad & Tobago
July 25-27, 2018

ASIA CONGRESS FOR CONSERVATION BIOLOGY (ASIA CCB)

AMERICAN UNIVERSITY OF CENTRAL ASIA,
KYRGYZ REPUBLIC

August 13-18, 2018

CONSERVATION MARKETING & ENGAGEMENT WORKING GROUP

INTERNATIONAL CONGRESS OF CONSERVATION
MARKETING & ENGAGEMENT

George Mason University
Arlington Campus, Arlington, Virginia, USA
October 25-27, 2018

LUNCHTIME WORKSHOPS

There will be more than 40 luncthime workshops at ICCB.

MONDAY LUNCHTIME

13:30 – 14:30

Sala 103

Drafting Best Practice Guidelines for Engaging Faith Communities in Conservation Projects

Jame Schaefer, Marquette University; Theology

Secretaría General

Predation Risk Modeling as a Decision-Making Tool for Reducing Human-Wildlife Conflict

Jennifer Miller, University of California Berkeley

Arsenal

Thinking Outside the Sanctuary: Effective Use of Controversial Tools to Conserve Wild Apes

Jena Hickey, International Gorilla Conservation Programme

Barahona 1

Early Career Interdisciplinary research and practice experience exchange: Looking to the future

Federico Davila, The Australian National University; Rebecca Jarvis, Institute for Applied Ecology New Zealand, Auckland University of Technology; Claudia Múnera-Roldán, Australian National University, Fenner School of Environment and Society

Barahona 2

How to report on the costs of conservation interventions for better conservation decisions

Gwen Iacona, University of Queensland; Bonnie Mappin, University of Queensland

Barahona 4

Conservation in Colombia, from the rural and environmental studies: studies from the past 10 years

Maria Echeverry-Galvis, Pontificia Universidad Javeriana; Juan Benavides, Pontificia Universida Javeriana

Sala 301

*Informing Conservation Agendas Through Global Conversations
Introducing the Ecovillage Playing Cards*

Margarita Zethelius, Alliances for Abundance; CASA Colombia; Jennifer McRuer, DICE

Sala 302

Using Conservation Evidence to inform practical decision making

Claire Wordley, University of Cambridge

Sala 303

A global perspective of local and regional-scale aquatic ecosystem conservation and management

Jorge Celi, Universidad Regional Amazónica IKIAM;
Priyadarsanan Dharma Rajan, Ashoka Trust for Research in Ecology and the Environment (ATREE); Stephanie Januchowski-Hartley, Paul Sabatier University; Sukhmani Mantel, Rhodes University; Helen Barber-James, Albany Museum

Sala 304

Human-centered approaches to invasive lionfish control

Jennifer Chapman, Blue Ventures; Marc Fruitema, Blue Ventures

TUESDAY LUNCHTIME

13:30 – 14:30

Sala 103

The Art of Learning: Integrating Dance in Science Education

Jame McCray, Dance Exchange; University of Florida

Secretaría General

A manifesto for predictive conservation

Matthew Selinske, RMIT University

Arsenal

Bridging the gap between science and practice for conservation in the Spanish speaking world

Eduardo Gallo-Cajiao, University of Queensland

Barahona 1

New frontiers in productive land management for conservation in tropical landscapes

Diego Correa Gomez, PhD Student, University of Queensland; Sofia Lopez, University of Queensland

Barahona 2

Adoption of EbA in the face of climate change: Improve livelihoods around Worobong Forest Reserve

Conrad Kyei-mensah, University of Ghana

Barahona 3 (livestreaming and translation room)

Millennial Conservation: How Today's Youth Will Shape Tomorrow's Conservation

Leo Douglas, Columbia University; Tracy Bain, International Fund for Animal Welfare; Kelvin Alie, International Fund for Animal Welfare

Sala 301

Making ecological methods work for threatened and rare species

Christian Devenish, Manchester Metropolitan University;

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Stuart Marsden, Manchester Metropolitan University; Renzo Piana, CORBIDI; Huw Lloyd, Manchester Metropolitan University; Alex Lees, Manchester Metropolitan University

Sala 302

Improving Cross-disciplinary Communication: An Introduction to the Toolbox Dialogue Method

Marisa Rinkus, Michigan State University; Michael O'Rourke, Michigan State University

Sala 303

Defining a Conservation Planning Toolkit

Patrick Crist, NatureServe; Eddie Game, The Nature Conservancy; Nick Salafsky, Foundations of Success

Sala 304

Telling conservation stories through art-science collaborations

John Fanshawe, Birdlife International; Cambridge Conservation Initiative; Luciana Leite, Oregon State University

WEDNESDAY LUNCHTIME

13:30-14:30

Secretaría General

Training Conservation Leaders: Lessons for Academic Professional Education in Adaptive Management

Armando Valdes-Velasquez, Foundations of Success

Sala 103

Faith-based conservation 2.0: Exploring new directions in theory policy and practice

Fabrizio Frascaroli, University of Zurich; Dekila Chungyalpa, YETI, Yale University

Arsenal

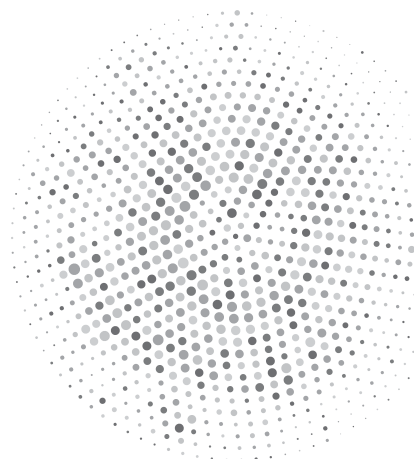
Tools for Fostering Inclusive Conservation Science Communication

Cynthia Malone, Center for Biodiversity and Conservation, American Museum of Natural History; Rae Wynn-Grant, Center for Biodiversity and Conservation, American Museum of Natural History

Barahona 1

Role of cetaceans in ecosystem functioning: Defining conservation policies in the 21st century

Organizers: Barbara Galletti Vernazzani, Centro de Conservacion Cetacea; Elsa Cabrera, Centro de Conservación Cetacea; Roxana Schteinbarg, Instituto de Conservación de Ballenas; Sue Fisher, Animal Welfare Institute; DJ Schubert, nimal Welfare Institute



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2017 ICCB STUDENT AWARDS COMPETITION

FOR BEST TALK, POSTER, AND KNOWLEDGE CAFE

**At the SCB Members Meeting
16:00 on Thursday 27 July
Grand Salon Barahona**

SCB is proud to honor the finalists who will participate in the 2017 ICCB Student Awards Competition. Students will compete in four categories: Best Oral Talk, Best Speed Presentations, Best Poster Presentation, and Best Knowledge Cafe.

Abstracts for the Student Award Finalists are integrated into the Scientific Program and will be judged by volunteers those sessions. Winners will be

honored for their achievements at a special Student Awards Ceremony at the SCB Members Meeting on Thursday, 27 July in Gran Salon Barahona between 16:00-17:00.

The Student Awards Competition is organized by the ICCB Education and Student Affairs Committee under the leadership of committee chair and SCB Board Member Jacqueline Grant.



Student Award Finalists at ICCB-ECCB 2015 in Montpellier, France.

Presenters: Joe Roman, conservation biologist and researcher at the Gund Institute for Ecological Economics at the University of Vermont and a Hrdy Visiting Fellow at Harvard University; Sue Fisher, lawyer and consultant on marine issues for the Animal Welfare Institute

Barahona 2

Sharing Lessons from Impact Evaluation of Commodities Certification schemes in Southern Chile

Irina Montenegro, WWF Chile; Priscila Molina, WWF Chile

Barahona 3 (livestreaming and translation room)

Data rich but insight poor? How to use data science to empower management and conservation

Fernando Cagua, University of Canterbury; Nancy Bunbury, Seychelles Islands Foundation; Tim Robinson, University of Wyoming

Barahona 4

Protected area downgrading, and degazettement (PADDD): science and policy implications

Rachel Golden Kroner, George Mason University; Carly Cook, Monash University; Siyu Qin, Conservation International; Shalynn Pack, Round River Conservation Studies; Carly Cook, Monash University; Michael Mascia, Conservation International

Sala 301

Partnerships for Conservation Governments private sector donors communities academia and NGOs

Daniela Raik, Conservation International; Raul Roys, Cerrejon; Jon Paul Rodriguez, Instituto Venezolano de Investigaciones Cientificas; Leah Gerber, Department of Biology, Arizona State University; Gabriel Bustos, Cerrejon; Santiago Arguello, SAGARPA; Marion Adeney, Gordon and Betty Moore Foundation

Sala 302

Youth Advocates and Indigenous Knowledge: Addressing Critical Conservation Challenges

Michael Chizhov, Volunteer Program, Grand Canyon Trust; Daisy Purdy, Applied Indigenous Studies, Northern Arizona University

Sala 303

What editors and reviewers are (not) expecting to find in your submission

Moreno Di Marco, The University of Queensland; Mark Burgman, The University of Melbourne

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Sala 304

Adding value to conservation policy: Work of SCB's regional sections at the science-policy interface

Stefan Kreft Eberswalde, University for Sustainable Development; Sarah Reed Wildlife Conservation Society, Colorado State University

THURSDAY LUNCHTIME

13:30-14:30

Sala 103

Starting and Supporting Local Chapters within SCB

Andrew Gregory, Bowling Green State University; Rebecca Mccaffery, United States Geological Survey

Secretaría General

The role and value of cetaceans to ecosystem functioning

Rae Wynn-Grant, Center for Biodiversity and Conservation, American Museum of Natural History; Martha Groom, University of Washington; Cynthia Malone, American Museum of Natural History; Ricardo Rocha, University of Lisbon; Eleanor Sterling, Center for Biodiversity and Conservation, American Museum of Natural History

Arsenal

Civic Engagement in Conservation Biology

Jacqueline Grant, Southern Utah University; Kimberly Terrell, Memphis Zoo

Barahona 1

Implementation of a two-sex, nonlinear, age-structured metapopulation PVA web app

Wayne Getz, UC Berkeley

Barahona 2

The Road Ahead: wildlife connectivity around linear infrastructure

Evi Paemelaere, Panthera; Dafna Angel, Panthera

Barahona 4

Innovative Tools and Approaches for Ecosystem Risk Assessment in Latin America

José Ferrer Paris, Ivic; Irene Zager, Provita

Sala 301

Got Capacity? Evaluating capacity development activities to show impact

Stuart Paterson, Fauna & Flora International; Andrea Santy, WWF; Eleanor Sterling, American Museum of Natural History

Sala 302

Transboundary conservation in Latin America and the Caribbean: from segmentation to synergy

Olivier Chassot Labastrou, Society for Conservation Biology LACA Section; Anthony Giordano, Texas Tech University; Nigel Noriega, Sustainable Innovation Initiatives; Tsitsi McPherson, SCB Latin America and the Caribbean Section; Rurik List, Universidad Autonoma Metropolitana; Karla Pelz Serrano, Universidad Autónoma Metropolitana Lerma; Sandra Pompa, Mansilla, Fuego Verde S.C.; Eduardo Ponce Guevara, Instituto de Ecología; Ana Porzecanski, American Museum Natural History; Valeria Towns, UNAM

Sala 303

Discover, Map, and Collaborate: Applying Spatial Data to Conservation Challenges Using Online Tools

Tosha Comendant, Conservation Biology Institute; Gladwin Joseph, Conservation Biology Institute; James Strittholt, Conservation Biology Institute

Sala 304

Integrating sanctuaries into national conservation strategies for the conservation of wild apes

Michel Halbwax, International Center for Medical Research



The poster features a background image of a mountain range. At the top, there are five circular icons: a map of Latin America, a magnifying glass, two people silhouettes, a download arrow, and an ear with sound waves. Below the icons, the text reads: **SOCIAL SCIENCE WORKING GROUP BUSINESS MEETING** July 26, 5-6 pm in Sala 304. The bottom section contains the following text: Join us for our biennial Business Meeting! Meet new SSWG Board members, hear the latest working group news, share your thoughts and concerns, learn about opportunities to get involved, and network with your peers. All SCB members are invited!



Smithsonian-Mason School of Conservation

*Please stop by the
SMSC Exhibit Booth #34
at ICCB 2017 to say
hello and pick up more
information about our
undergraduate, graduate,
and professional courses*

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Intensive sessions from 2 days up to 2 weeks duration, conducted in our Academic Center and the surrounding campus of the Smithsonian Conservation Biology Institute; Graduate Credit or Professional Continuing Education Units

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September 11-16, 2017

Ecology and Conservation of Migratory Birds

September 18-29, 2017

Spatial Ecology, Geospatial Analysis & Remote Sensing for Conservation

October 16-27, 2017

Camera Trapping Tools for Landowners Workshop

November 4-5, 2017

Statistics for Ecology and Conservation Biology

February 12-23, 2018

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Endangered Species Conservation (15 credits):

each one incorporates a four-week independent research experience under the guidance of a conservation mentor.





POSTER SESSIONS • MONDAY 24 JULY 2017

Our Environment

POSTER SESSIONS: MONDAY 24 JULY

17:00-18:00 • CLAUSTRO DE LAS ANIMAS

- 1 Spotted hyena den site selection criteria in Hwange National Park, Zimbabwe**
Cynthia Mapendere, University of Pretoria
- 2 Integration of Tetracarpidium conophorum in land use systems contribute to biodiversity conservation**
Choungo Patrick, Higher Institute of Environmental Sciences
- 3 Food habits of Bengal tigers (*Panthera tigris tigris*) in Chitwan National Park, Nepal**
Shivish Bhandari, Tribhuvan University
- 4 Temporal co-occurrence of the Florida panther with coexisting species**
Marta Prat, Department of Wildlife Ecology and Conservation, University of Florida
- 5 Selecting indicator species for biodiversity management**
Prue Addison, University of Oxford
- 6 Global correlates of extinction risk in freshwater crayfish**
Lucie Bland, The University of Melbourne
- 7 Quo vadis camera trap research? A 50-year review of camera trap research goals and outcomes**
Izabela Stachowicz, Instituto Venezolano de Investigaciones Científicas
- 8 The impact of a road on a bird community in a protected area, in southern Brazil**
Paulo Hartmann, Federal University of Fronteira Sul
- 9 Effects of three pesticides in crying-frog (*Physalaemus gracilis*, Anura: Leptodactylidae) tadpoles**
Marilia Hartmann, Federal University of Fronteira Sul; Paulo Hartmann, Federal University of Fronteira Sul
- 10 Livestock, humans and predators as Upland Goose (*Chloephaga picta picta*) nests' disturbances**
Natalia A. Cossa, Laboratorio de Ecología y Comportamiento Animal, Universidad de Buenos Aires
- 11 Thinking inside the box: Thermal suitability of nest-boxes and tree-hollows for arboreal marsupials**
Jessica Rowland, Deakin University
- 12 Conserving the endangered silvery-brown tamarin through community involvement**
Gianna Florez Ariza, Conservacion Titi Gris Colombia
- 13 Serpentine Vegetation Dynamics Conifer and Encroachment in Conjunction with Anthropogenic Disturbance**
Jerry Burgess, Johns Hopkins University
- 14 Assortative mating in introduced Asian Black Bear (*Ursus thibetanus*) in Korea**
Amael Borzee, Seoul National University
- 15 Changes in the community structure of drosophilids (Insecta, Diptera) across two forest fragments**
Francisco Das Chagas Roque, Instituto Federal de Brasília (Campus Planaltina)



POSTER SESSIONS • MONDAY 24 JULY 2017

Our Environment

- 16 Trophic classifications in diverse Amazonian ecosystem food webs: a new suite of keystone species?**
Pieter deHart, Unity College
- 17 Are tropical vertebrates living in stressful environments? A quantitative review**
Angela Camargo-Sanabria, San Nicolas de Hidalgo University of Michoacan
- 18 Infection of the fittest: devil facial tumour disease**
Hamish McCallum, Griffith University
- 19 Historical Density and Recent Trends in Forest Duiker Populations in African National Parks**
Timothy Obrien, Wildlife Conservation Society
- 20 Determinants for crop raiding by wildlife species in Africa and Asia**
Eva Gross, Awely
- 21 Differential Preference of an Insular Flying Fox for Seed Figs of a Dioecious Species**
Shiang-Fan Chen, Center for General Education, National Taipei University, Taiwan
- 22 An 18-Year Study of Wood Turtles (*Glyptemys insculpta*) in Northern Lower Michigan**
Iain Schneider, Central Michigan University, University of St. Thomas
- 23 Rarity and resource availability for insectivorous mammals**
Rachael Collett, The University of Queensland
- 24 Assessing the impact of anthropogenic activities on biodiversity in Huascarán National Park, Peru**
Jessica Gilbert, Texas A&M University
- 25 The Genetic Diversity of the Asian Elephant Across its Distribution**
Kris Budd, University of Missouri
- 26 Novel data on germination ecology of native Andean plants applied to ecosystem restoration**
Antonio Crespo, Universidad del Azuay Plant Ecology Lab
- 27 Mortality, infanticide, and juvenile survival in feral cats (*Felis catus*)**
Kathryn Strang, Massey University
- 28 Conservation status in a data vacuum: Red-listing the endemism hotspot of São Tomé and Príncipe**
Ricardo de Lima, Ce3C - Centre for Ecology, Evolution and Environmental Change, Lisbon University
- 29 The role of unburnt habitat patches for the persistence of birds in a fire-prone landscape**
Zoe Reynolds, Australian National University
- 30 Assessment of the vulnerability of freshwater crayfish to climate change**
Md Anwar Hossain, The University of Melbourne
- 31 Spatial distribution of tall and dwarf mangroves and its influencing factors**
Suyadi Suyadi, Lembaga Ilmu Pengetahuan Indonesia/Indonesian Institute of Sciences (LIPI)
- 32 Sub-lethal heat exposure poses threats to arid bird conservation**
Liam Bailey, Australian National University
- 33 Insights into pre-fledging behavior and phenology from trail cameras on translocated seabirds**
Megan Dalton, Pacific Rim Conservation



POSTER SESSIONS • MONDAY 24 JULY 2017

Our Environment

- 34 Modelling climate change's impact on global vegetation using a trait-based approach**
Coline Boonman, Radboud University
- 35 Temporal patterns in ungulate distribution along the road-network of a South African protected area**
Diana Novoa, University of Reading; Manuela Gonzalez Suarez, University of Reading
- 36 Monitoring parrotfish as an indicator of coral reef resilience and fishery management in Thailand**
Thamasak Yeemin, Ramkhamhaeng University
- 37 Assessing the impacts of apex predator removal in complex ecological, economic and social systems**
Leejah Dorward, University of Oxford
- 38 Survival of Reintroduced Asian Houbara in United Arab Emirates' Reserves**
Joseph Azar, Reneco Wildlife Consultants
- 39 Potential role of *E. gambianus* in habitat regeneration and maintenance: Evidence from dietary studies**
Kofi Amponsah-Mensah, University of Ghana
- 40 Awareness, knowledge and perceptions about wetlands among residents of wetland communities in Ghana**
Louisa Sawyerr, DABCS, University of Ghana
- 41 Draggin' their feet: Delayed emergence and dispersal influence dragonfly population structure**
Payton Phillips, Central Michigan University
- 42 Conservation of Chilean Andean forests and its flora: Contribution of Bosque Pehuén park**
Daniela Mellado, Universidad Austral de Chile
- 43 Population biology, life history, and ecology of the endangered Bahama Swallow**
Maya Wilson, Virginia Tech
- 44 Human disturbance drives shifts towards nocturnality in large mammals**
Kaitlyn Gaynor, University of California - Berkeley
- 45 Conservation status of the Andean bear, *Tremarctos ornatus*, at the Chingaza National Natural Park**
Angela Parra, Parques Nacionales Naturales de Colombia
- 46 Conservation genetics in disturbance ecology: An Australian rodent in a fire-prone landscape**
Robyn Shaw, The Australian National University
- 47 Heavy metal accumulation in mallards (*Anas platyrhynchos*) as bioindicators of wetland exposure**
Katie Gibb, Massey University
- 48 Science based ecotourism on five tropical arboreal species: Detection rates and related variables**
Yoonjung Yi, Ewha W. University
- 49 Methodological framework for the Implementation of Important Plant Areas (IPAs) in Colombia**
Carolina Castellanos, Instituto Alexander von Humboldt
- 50 Community impacts and perceptions of *Cryptoprocta ferox* as a livestock predator**
Samuel Merson, University of Oxford



POSTER SESSIONS • MONDAY 24 JULY 2017

Our Environment

- 51 Thermal sensitivity of tropical amphibians and their vulnerability to climate change**
Hilton Oyamaguchi, Drexel University
- 52 Useful plants of Colombia: A data-base for exploring the relations between plants and people**
Nataly Pimiento Quiroga, Universidad Industrial de Santander
- 53 The role of temperature on intraspecific interactions, an experimental study on a tea pest moth**
Barbara Joncour, Biology Department Queen's University
- 54 Impacts of the invasive oyster *Crassostrea gigas* on the indigenous biodiversity**
Laurent Godet, Centre National de la Recherche Scientifique
- 55 Feeling the heat: the susceptibility of African Penguins to hot weather events and climate change**
Noelle Tubbs, Percy Fitzpatrick Institute of African Ornithology, University of Cape Town
- 56 Is La Guajira a Promising Nursing Habitat for Endangered Nearshore Benthic Marine Species?**
Catalina Vasquez-Carrillo, University of Miami
- 57 Red List of Ecosystems in Paraguay: A national assessment following IUCN criteria**
Viviana Rojas Bonzi, Guyra Paraguay
- 58 Protecting tigers: The Zoological Society of London's approach to tiger conservation across Asia**
Angela Yang, ZSL
- 59 Measuring protected area effectiveness in persisting threatened plants**
Munemitsu Akasaka, Tokyo University of Agriculture and Technology
- 60 Efforts for conservation of the threatened species *Myrmecophaga tridactyla*: A molecular approach**
Ricardo Sartori, IBILCE, UNESP
- 61 Monitoring tapir and other terrestrial mammals in "Bañado La Estrella" wetland in Argentina**
Bibiana Gomez-Valencia, Departamento de Ecología, Genética y Evolución, Universidad de Buenos Aires
- 62 Andean bear-human conflicts, identification of priority areas in the east range of Colombia**
Ivan Vela Vargas, ProCAT Colombia, University of Arizona
- 63 Conservation management plan for *Gustavia speciosa* (Lecythideaceae) in the Cauca River Valley Colombia**
Nhora Helena Ospina, Universidad de Valle
- 64 Focal species, new records at the SIRAP-Eje Cafetero, ecoregion Colombia**
Carlos Saavedra, Wildlife Conservation Society
- 65 Evaluating use of unmanned aerial vehicles (UAVs) for monitoring flamingos**
Felicity Arengo, Center for Biodiversity & Cons; Patricia Marconi, Fundación YUCHAN
- 66 Detecting genetic divergence in a relict New Zealand seabird**
Aisling Rayne, University of Canterbury
- 67 Habitat disturbance affects the population structure of *Pristimantis achatinus* frogs in the tropic**
Boris Tinoco, University of Azuay
- 68 International trade trends in CITES listed species in Colombia**
Marcela Delgado, Pontificia Universidad Javeriana



POSTER SESSIONS • MONDAY 24 JULY 2017

Our Environment

- 69 **Using novel tools for country-level reporting on spatial/temporal gaps in species occurrence records**
Michelle Duong, Yale University
- 70 **Personality assessments as potential tools for reintroduction programs**
Brett Frye, Clemson University
- 71 **Examining landscape composition of an agroecosystem on hunting habitat use of barn owls (*Tyto alba*)**
Xeronimo Castañeda, Humboldt State University
- 72 **Interactive effects of intensive forest management and wild herbivores**
Thomas Stokely, Oregon State University, College of Forestry
- 73 **Molecular-assisted identification and value assessment of batoid species at landing sites in India**
Shaili Johri, University of Washington, Seattle
- 74 **Understory influence over tree saplings in native *Araucaria angustifolia* plantations, Argentina**
Magalí Pérez Flores, LISEA (FCNyM and FCAYF - UNLP) - CONICET
- 75 **Microhabitat of *Epioblasma triquetra* (Unionidae) in the Laurentian Great Lakes watershed**
Caitlin Beaver, Central Michigan University
- 76 **Drivers in consumer preferences and sustainable wild market potential for discus trade (*Symphysodon*)**
Anita Wan, University of Kent
- 77 **Yelloweye and Quillback rockfish abundance and benthic habitat parameters in British Columbia**
Mauricio Carrasquilla, University of Victoria
- 78 **Tracking Wyoming toads: lessons from reintroductions of one of the world's rarest vertebrates**
Luke Linhoff, Florida International University
- 79 **Red-edge vegetation indices as a direct measure of habitat quality for Magellanic woodpeckers**
Gerardo Soto, Cornell Lab of Ornithology
- 80 **Group size and composition of *Sotalia guianensis* in southern of Maracaibo Lake, Venezuela**
Yurasi Briceño, Venezuelan Institute for Scientific Research
- 81 **A Path Forward: Enabling Decision Support Among Conservation Practitioners and Stakeholders**
Gladwin Joseph, Conservation Biology Institute
- 82 **Asian Wild Buffalo, *Bubalus bubalis arnee* (Linn), Reintroduction in Nepal: A Historical Milestone in Species Conservation**
Ram Kandel, Government of Nepal, Dept. of National Parks & WL Conservation
- 83 ***Espeletia* spp as disturbance and recovery indicator in National Parks trails in Colombia**
Cristina Lopez-Gallego, Universidad de Antioquia, Colombia
- 84 **Genetic characterization of the African jewelfish (*Hemichromis letourneuxi*) introduced to Florida**
Natalia Belfiore, University of Tampa
- 85 **Promoting co-existence of jaguars and people in southern Belize through a holistic approach**
Karla Hernandez Aguilar, Ya'axché Conservation Trust



POSTER SESSIONS • MONDAY 24 JULY 2017

Our Environment

- 86 Geolocator tracking of great reed-warblers identifies key regions for migratory wetland specialists**
Cagan Sekercioglu, University of Utah
- 87 Milkweed numbers as a limiting factor to monarch populations in tallgrass prairies of Midwest, USA**
Camden Grundeman, Cornell College; Marin Dettwiller, Cornell College
- 88 Effects of organic farming and landscape on biodiversity of rice fields in Japan**
Yoshihiro Natuhara, Graduate School of Environmental Studies, Nagoya University
- 89 Landscape variables affect nest box selection and reproductive success in American Kestrels**
Susan Willson, St. Lawrence University
- 90 Global protected area coverage for vertebrate species vs. invertebrate and plant assemblages**
Moreno Di Marco, CSIRO

SCB GROUPS

- 92 SCB Chapters - Cameroon**
Cameroon Chapter
- 93 SCB Chapters - Iran**
Iran Chapter
- 94 SCB Chapters - Korea**
Korea Chapter
- 95 SCB Chapters - Orange County**
Orange County Chapter
- 96 SCB Chapters - Santa Cruz**
Santa Cruz Chapter
- 97 SCB Chapters - Sydney**
Sydney Chapter
- 98 SCB Chapters - Texas A&M**
Texas A&M Chapter
- 99 SCB Chapters - Hawaii**
Hawaii Chapter



POSTER SESSIONS • TUESDAY 25 JULY 2017

Problems and Solutions

POSTER SESSIONS: TUESDAY 25 JULY

17:00-18:00 • CLAUSTRO DE LAS ANIMAS

- 1 Trophy fishing for species threatened with extinction: A way forward**
David Shiffman, Simon Fraser University
- 2 Exploring noncompliance with fisheries rules in the Brazilian Pantanal**
Ethan Shirley, Michigan State University
- 3 Assessing the Impacts of Hatcheries on Green Turtle Hatchlings**
Carmen Mejias Balsalobre, Durrell Institute of Conservation and Ecology
- 4 Inclusive Indicators to Assess and Foster Social Equity in Protected Areas by 2020**
Noelia Zafra-Calvo, Center for Macroecology, Evolution, and Climate, University of Copenhagen
- 5 Mapping woody above ground biomass for forest management decisions**
Vladimir Wingate, University of Basel
- 6 Restoring biodiversity using mammal-free sanctuaries: implications for birds and seed dispersal**
Sara Bombaci, Colorado State University
- 7 Developing general rules to address complex conservation problems using simple dichotomies**
Vanessa Adams, University of Queensland
- 8 Quantifying Post-War Vegetation Change on the Northern Uganda Landscape**
Nicholas Dowhaniuk, University of Florida
- 9 The role for seed banks in plant conservation**
Eva Martens, Royal Botanic Gardens Kew
- 10 Making Conservation Public in Mexico: Why and how to invest in public lands for the 21st Century?**
Paulo Quadri, University of California Santa Cruz
- 11 Spatial ecology of southern Australian bottlenose dolphins inhabiting a marine protected area**
Ceilia Passadore, Cetacean, Ecology, Behaviour and Evolution Lab, Flinders University
- 12 The use of ecological indicators to guide Everglades restoration efforts**
Ruscena Wiederholt, Everglades Foundation
- 13 High and increasing nightlight pollution around protected areas and within biodiversity hotspots**
Adrien Guetté, University of Nantes
- 14 The Effects of Tropical Forest Fragmentation on Hummingbird Mediated Pollen Flow**
Felipe Torres, University of Toronto
- 15 The vulnerability of two arboreal primates in an anthropogenic habitat**
Maria Joana Ferreira Da Silva, Porto University (CIBIO/InBIO)



POSTER SESSIONS • TUESDAY 25 JULY 2017

Problems and Solutions

- 16 Lay people views of biodiversity: A diversity of personal determinants beyond a common ground**
Marine Leve, ESE, Université Paris Sud, Orsay; CESCO, MNHN, Paris
- 17 Edge effect on lichen's distribution and chlorophyll content, in fragments of *Polylepis quadrijuga***
Carolina Ramos, Grupo de Investigación en Manejo integrado de ecosistemas y Biodiversidad
- 18 Rewilding clearcuts: A challenge to biodiversity conservation in forestry landscapes**
Matias Barceló, Facultad de Ciencias, Universidad de Chile
- 19 High levels of inconsistency between Australian threatened species lists and processes**
Chris Sanderson, University of Queensland
- 20 Social dimensions of land clearing: Spatial mapping of environmental values in Queensland, Australia**
Blake Alexander Simmons, University of Queensland
- 21 Reduced anthropogenic burning leads to loss of grassy forests and decline of a threatened bird**
Elizabeth Tasker, NSW Office of Environment & Heritage
- 22 Impacts of quarry activities on water resources and effects on biodiversity: The Odonata assessment**
Emmanuel Taye, University of Ghana
- 23 Insights from South Africa: The importance of geological history in riverine biomonitoring**
Sukhmani Mantel, Rhodes University
- 24 Developing and Sustaining a Regional Conservation Education Program**
Martin Main, University of Florida
- 25 Impact of rapid deforestation on dynamics and ecology of disease vectors as mosquitoes in Cameroon**
Piam Djomo Jordane, Global Environmental Protect
- 26 The Importance of Species Interactions for Predicting Species Distributions at the Continental Scale**
Melinda de Jonge, Radboud University Nijmegen
- 27 Climate Watch and Spoonbill Watch: Engaging Communities in Climate Science and Bird Conservation**
Nicole Michel, National Audubon Society
- 28 Coffee Community and Conservation Why sustainable livelihoods matter in conservation**
Trevor Holbrook, Woodland Park Zoo - Tree Kangaroo Conservation Program
- 29 Nature at risk under future agricultural expansion and intensification**
Laura Kehoe, Humboldt University-Berlin
- 30 Methods for translocating and hand-rearing Laysan albatrosses**
Charles Kohley, Pacific Rim Conservation
- 31 Dangers of reduced nest density in mobbing birds**
Liam Bailey, Australian National University



POSTER SESSIONS • TUESDAY 25 JULY 2017

Problems and Solutions

- 32 Analysing Multi-Level Network Governance for Social Forestry**
Rachel Friedman, University of Queensland
- 33 Landscape diversity of birds is enhanced by retaining key natural components in rural environments**
Mark Hall, La Trobe University
- 34 The Role of Roots in Survival Strategies of Tropical Tree Species**
Coline Boonman, Radboud Univeristy
- 35 Ineffectual management of bushmeat exploitation in Ghana**
Hannah Sackey, University of Ghana
- 36 Where to see grassland species if grasslands are gone?**
Mari-Liis Viljur, University of Tartu, Department of Zoology
- 37 Visualizing protected area legal changes and development dynamics in Amazonia**
Rachel Golden Kroner, George Mason University
- 38 Urban biodiversity as a conservation opportunity for informal settlements**
Juliana Montoya, Instituto Alexander von Humboldt
- 39 Beta Diversity of Selectively Logged Tropical Forest Soundscapes in Borneo**
Zuzana Burivalova, Princeton University
- 40 Biocultural Corridors: Exploring Social and Ecological Connectivity in Amazonian Ecuador**
Michael Esbach, University of Florida
- 41 A Climate Action Plan for birds in Latin America and the Caribbean**
Chad Wilsey, National Audubon Society; John Beavers and John Myers, National Audubon Society
- 42 The jumbo problem of human-elephant coexistence in Chobe, Botswana**
Samantha Garvin, Yale University
- 43 Cost effective actions to mitigate land-based sources of pollution in West Maui through decision mo**
Megan Barnes, University of Hawaii at Manoa
- 44 Prioritizing spending on US Endangered Species recovery programs within institutional constraints**
Gwenllian Iacona, University of Queensland
- 45 Identifying marine biodiversity at risk from offshore oil and gas exploration and extraction**
Ruben Venegas Li, University of Queensland
- 46 Effects of land-use history and fire patterns on Kazakhstan's Steppe Birds**
Ingrid Stirnemann, Institute of Landscape Ecology, University of Munster
- 47 Biodiversity and ecosystem services of the karst ecosystem a case study from Italy**
Claudia Canedoli, University of Milano Bicocca
- 48 Study on Managers' Perceptions of Protected Area Outcomes in Madagascar**
Johanna Eklund, University of Helsinki



POSTER SESSIONS • TUESDAY 25 JULY 2017

Problems and Solutions

- 49 Good Governance Structures for Integrating Marine and Land-Use Management**
Edward Hind-Ozan, Sustainable Places Research Institute, Cardiff University
- 50 Drivers of risk and mitigation strategies change at different levels of socio-economic development**
Adrian Monge Monge, University of Helsinki
- 51 Integrating instruments of climate change for the management of protected areas in colombia**
Mario Londono, Asociación de Biólogos Ambientales (Environmental Biologist Association)
- 52 Fine scale genetic structure in forest antelopes across Omo-Shasha-Oluwa Forest Landscape Nigeria**
Michelle Fasona, University of Lagos; Andrew Gregory, Bowling Green State University
- 53 A Landscape Approach to conservation: From theory to boots-on-the-ground in Indonesia**
Daniel Collette, Zoological Society of London
- 54 Addressing the Challenges of Maintaining Research Quality with Volunteer Researchers**
Jennifer Powell, Cloudbridge Nature Reserve
- 55 Big data for conservation: Modelling the distribution of wildlife watchers using social media**
Francesca Mancini, University of Aberdeen
- 56 Location, location, location: Comparing source sink dynamics of a generalist and a specialist bird**
Andrew Gregory, Bowling Green State University
- 57 Unusual suspects: The contributions of conservation projects to the Sustainable Development Goals**
Judith Schleicher, University of Cambridge
- 58 Locally-Grounded Capacity Development for Effective Conservation**
Kristin Douglas, Center for Biodiversity and Conservation, American Museum of Natural History; Suzanne Macey, Center for Biodiversity and Conservation, American Museum of Natural History
- 59 Targeting Tropical Forest Conservation Contractual Designs Toward High-Risk Landowners**
Phillip Mohebalian, World Wildlife Fund
- 60 Wildlife Crossings Identification for Road Development in Guyana**
Evi Paemelaere, Panthera
- 61 Monetizing Wildlife Habitat A Necessary Evil**
Shelly Johnson, University of Florida
- 62 Bird-based tourism as a conservation and economic development tool with peace agreement in Colombia**
Gloria Lentijo, National Audubon Society
- 63 Structure and credibility of population viability analysis in the 21st Century: A review**
Vratika Chaudhary, University of Florida
- 64 A Comparison of Four Methods to Determine the Location of Highway-crossing Sites for Two Carnivores**
Christine Proctor, Harrisburg University



POSTER SESSIONS • TUESDAY 25 JULY 2017

Problems and Solutions

- 65 Contribution of Agricultural areas to the Conservation of Neotropical Primates**
Maria Molina, Pontificia Universidad Javeriana
- 66 The Intersection of Reproductive Rights and Environmental Rights in Guatemala: A Case Study**
Midori Altamirano, Planned Parenthood Global
- 67 Visual Art and Conservation Biology: Partners Addressing the Crisis of Diminishing Biodiversity**
Jeanne Dodds, Endangered Species Coalition
- 68 Balancing freshwater needs of humans and ecosystems in the Mara River Basin, Tanzania**
Elizabeth Anderson, Florida International University
- 69 The Southern Cone Chapter: a proposed approach to bridge science and practice in southern South America**
Mauricio Nunez-Regueiro, University of Florida; Julián Caviedes, CEDEL, Pontificia Universidad Católica de Chile
- 70 Spatial Prioritization of Conservation Areas in the Depayof Huila, Colombia**
Diana Diaz Gomez, ONF Andina
- 71 Conservation in Mexico: Strategies for Public Participation in a Weak Enforcement Environment**
Cassie Hoffman, Conservation X Labs
- 72 A bioeconomic model of sustainable whale-watching for the Philippines**
Allison Santos, Nova Southeastern University
- 73 Effects of Shifting Wildfire Regimes on Mammal Connectivity Dynamics in a Transboundary Wilderness**
Patrick Burke, University of British Columbia
- 74 Monitoring the Qualities of Wilderness**
Peter Dratch, U.S. Fish & Wildlife Service
- 75 Biodiversity patterns in a mosaic landscape in southern Belize**
Said Gutierrez, Yaaxche Conservation Trust
- 76 Inspiring sea turtle stewardship in St. Kitts with voluntary certification the implementation phase**
Sara Ramirez, St. Kitts Sea Turtle Monitoring Network
- 77 EO Wilson Biodiversity Laboratory in Gorongosa NP: A nexus for conservation and community education**
Piotr Naskrecki, Gorongosa Restoration Project
- 78 Impact of a communication intervention of Matsigenka kids toward giant otters in Peru**
Jenny Glikman, Institute for Conservation Research, San Diego Zoo Global
- 79 Co-management with Indigenous Peoples: Overcoming Conflict and Aligning Interests**
John Goedschalk, Conservation International
- 80 CITES to the Rescue? The Effective Use of Conservation Tools to Save Chambered Nautiluses**
Gregory Barord, Central Campus



POSTER SESSIONS • TUESDAY 25 JULY 2017

Problems and Solutions

- 81 Stakeholders' perspectives on species management, prioritising actions to preserve our biodiversity**

Hernan Caceres, University of Queensland

SCB GROUPS

- 92 SCB Chapters - Cameroon**

Cameroon Chapter

- 93 SCB Chapters - Iran**

Iran Chapter

- 94 SCB Chapters - Korea**

Korea Chapter

- 95 SCB Chapters - Orange County**

Orange County Chapter

- 96 SCB Chapters - Santa Cruz**

Santa Cruz Chapter

- 97 SCB Chapters - Sydney**

Sydney Chapter

- 98 SCB Chapters - Texas A&M**

Texas A&M Chapter

- 99 SCB Chapters - Hawaii**

Hawaii Chapter

- 82 SCB Conservation Marketing and Engagement Working Group (ConsMark)**

ConsMark

- 83 SCB Religion and Conservation Biology Working Group (RCBWG)**

RCBWG

- 84 SCB Urban Ecology Working Group (UBWG)**

UBWG

- 85 ECCB 2018**

SCB Europe Section



POSTER SESSIONS • WEDNESDAY 26 JULY 2017

Conservation in Latin America

POSTER SESSIONS: WEDNESDAY 26 JULY

17:00-18:00 • CLAUSTRO DE LAS ANIMAS

- 1 Endangered jackrabbit establish its feeding and resting sites on pasture with cattle presence**
Arturo Carrillo-Reyes, Universidad de Ciencias y Artes de Chiapas
- 2 Unbundling between conservation and poverty alleviation in Mexico: The case of *Lepus flavigularis***
Tamara Rioja Paradela, Universidad de Ciencias y Artes de Chiapas
- 3 Reducing Illegal Fishing Using Behavior Change Interventions**
Jose Fraire, Environmental Defense Fund de Mexico
- 4 Identifying high-quality habitats for the critically-endangered Red Siskin in Venezuela**
Ada Sánchez-Mercado, Instituto Venezolano de Investigaciones Científicas; José Rafael Ferrer-Paris, IVIC
- 5 Changing lenses to monitor forest biodiversity: Nest webs as complex systems in the Americas**
José Tomás Ibarra, Centre for Local Development, Pontificia Universidad Católica de Chile
- 6 Co-management with Indigenous Peoples: Overcoming Conflict and Aligning Interests**
John Goedschalk, Conservation International; Gwendolyn Smith, ATTUNE
- 7 Women in conservation: Challenges faced for conducting field research in Peru**
Rocio Lopez De La Lama, Universidad Peruana Cayetano Heredia
- 8 Diet and traditional knowledge determinant for conservation of *Spizaetus isidori* in Colombia**
Juan Restrepo, Pontificia Universidad Javeriana
- 9 Conservation through wildlife release: An initiative from Civil Society to protect the biodiversity**
Angela Alviz, Fundación Orinoquia Biodiversa
- 10 Habitat fragmentation fire and hunting shape mammals richness in la Gran Sabana Venezuela**
Izabela Stachowicz, Instituto Venezolano de Investigaciones Científicas
- 11 Buffer zones as key areas to help to conserve biodiversity**
Shirley Serrano-Rojas, Crees Foundation
- 12 Tools for the Conservation and Sustainable Management of Useful Palms**
Carolina Isaza, Universidad Militar Nueva Granada
- 13 Conservation of Coral Reef Ecosystems of the Southeastern Dominican Republic**
Camilo Cortés Useche, FUNDEMAR - CINVESTAV
- 14 Conserving the endangered silvery brown tamarin in highly degraded forests due to cattle ranching**
Daniela Acosta, Universidad del Magdalena, Colombia
- 15 Money matters financial gaps contributed to forest cover loss in Ecuadorian protected areas**
Janeth Lessmann, Pontificia Universidad Católica de Chile



POSTER SESSIONS • WEDNESDAY 26 JULY 2017

Conservation in Latin America

- 16 Estimating loss and fragmentation of habitat of *Scelorchilus rubecula*: Regional to local patterns**
Alberto Alaniz, Universidad de Chile
- 17 Ecosystem engineering by *Fascicularia bicolor* in the South American temperate rainforest**
Gabriel Ortega, Universidad Austral de Chile
- 18 Using pollination services for spatial conservation prioritization in agricultural landscapes**
Sofia Lopez, University of Queensland, School of Earth and Environmental Science
- 19 Citizen Science in Flower Flies of Chile from Distribution to Key Component of the Biodiversity**
Rodrigo Barahona Segovia, Universidad de Chile
- 20 Sonic configuration of a transformed landscape in central Andes of Colombia**
Camila Parra-Guevara, Pontificia Universidad Javeriana
- 21 Differences in Habitat and Resource Use by Mammals in the Atlantic Forest Hotspot, Brazil**
Marcelo Magioli, University of São Paulo
- 22 Acoustic monitoring in the tropical forest case studies in French Guiana**
Juan Ulloa, Muséum national d'Histoire naturelle - Université Paris-Saclay
- 23 Trophic Ecology and diversity of carnivores in the humid temperate forests of southern Chile**
Fernando GarcíaSolis, Los Lagos University
- 24 AZE Mexico: A new list to contribute with species conservation**
Edgar Saavedra, CONABIO
- 25 Environmental Education as a Conservation Tool: The case of endemic amphibians of Mehun Chile**
Aracely Soto Silva, Universidad Austral de Chile
- 26 Morphology and morphometrics of the sagittae otoliths of invasive lionfish in Colombian Caribbean**
Laura Franco-León, Universidad de Bogotá Jorge Tadeo Lozano; Alejandro Henao-Castro, Parque Nacional Natural Corales de Profundidad
- 27 Phylogeography of the black-eyed tree frog *Agalychnis moreletii* (Dumril 1853)**
Alejandra Zamora Jerez, Manchester Metropolitan University
- 28 Habitat fragmentation and health indices of Howler and White-faced capuchin monkeys in Costa Rica**
Natalia Valverde-Zúñiga, Universidad de Costa Rica
- 29 Priorities for conservation of freshwater fishes in the Andean Orinoco in Colombia**
Jhon Zamudio, Pontificia Universidad Javeriana
- 30 Chytrid fungus in Brazilian anurans: Using dual RNA-seq to characterize the disease interface**
Cait McDonald, Cornell University
- 31 Differences in spatial conservation prioritization: A multicriteria analysis in the Neotropics**
Jaime Burbano-Girón, Pontificia Universidad Javeriana
- 32 An interdisciplinary approach to gaining insights on rare species: Bush dogs in the Rupununi, Guyana**
Matthew Hallett, University of Florida; Lilia Roa Fuentes, Pontificia Universidad Javeriana



POSTER SESSIONS • WEDNESDAY 26 JULY 2017

Conservation in Latin America

- 33 Ecological restoration of wildlife: Implications in the conservation of biodiversity**
Ramón Alexis Calderón Álvarez, Pontificia Universidad Javeriana
- 34 Distribution and conservation of mammal functional diversity at multiple scales in the Neotropics**
José González-Maya, ProCAT Colombia, Sierra to Sea Costa Rica
- 35 Landscape patterns and trends in Nicaragua a rapidly changing biodiversity hotspot**
Thomas Albright, University of Nevada, Reno
- 36 Conservation of Colombian Dragonflies and its Suitability as a Tool for Aquatic Protection**
Jenilee Montes, Universidad del atlantico, Universidad Central de Venezuela
- 37 Regional spatial analysis A tool to reduce impacts on biodiversity from infrastructure projects**
Sebastian Valdivieso, Wildlife Conservation Society
- 38 Soils in the canopy of old-growth Alerces (*Fitzroya cupressoides*), southern Chile**
Camila Tejo Haristoy, Universidad Austral de Chile
- 39 Combining behaviour and metabarcoding to assess coral reef fish diets in relation to habitat state**
Friederike Clever, Manchester Metropolitan University
- 40 Biocultural places for transformative communities and protected areas: Co-Investigation in Colombia**
Jennifer McRuer, UofS; DICE; Javier Maldonado-Ocampo, Pontificia Universidad Javeriana
- 41 Collaborative science for conservation of Andean Amazon rivers**
Elizabeth Anderson, Florida International University
- 42 After a decade of evaluating subsistence hunting in Yasun Biosphere Reserve: What is next?**
Hernan Alvarez, Wildlife Conservation Society
- 43 Partners for Conservation in the Colombian Amazon**
Javier Maldonado-Ocampo, Pontificia Universidad Javeriana
- 44 Private Nature Reserves: Challenges And Strategies For Conservation In The Ecuadorian Andes**
Yolanda Chavez, Fundacion Tangare
- 45 The Map of Life app: Supporting education and citizen science for biodiversity in Latin America**
Diego Ellis Soto, Yale University
- 46 Effects of environmental pollution on amphibians: Perspectives in biodiversity conservation**
Sylvia Rojas, Universidad Andres Bello
- 47 Shelterwood impacts on understory along 50 years after harvesting in *Nothofagus pumilio* forests**
Magalí Pérez Flores, LISEA (FCNyM and FCAyF - UNLP); CONICET
- 48 Bird community responses to a changing built urban form: Conservation on sprawling to compact cities**
Juan Amaya-Espinel, Instituto Alexander von Humboldt; Pontificia Universidad Javeriana
- 49 Can wild carnivores persist in a human dominated landscape?**
Libertad Orozco, Instituto de Ecología A.C.
- 50 Meeting biodiversity conservation and development needs though territorial planning schemes**
Marcela Portocarrero, Instituto Humboldt



POSTER SESSIONS • WEDNESDAY 26 JULY 2017

Conservation in Latin America

- 51 Climate change and marine turtle conservation in Yucatan's Peninsula, Mexico**
Marissel Frias, Pronatura Peninsula de Yucatan
- 52 Anuran functional diversity in a disturbed and endangered dry forest ecosystem in Colombia**
Oscar Ramos, Universidad de La Salle
- 53 Contribution of Parrotfishes to Coral Reef Resilience**
Trigal Velásquez Rodríguez, Universidad de los Andes
- 54 Anthropogenic interactions increasing mortality of cetaceans in Lake Maracaibo, Venezuela**
Leonardo Sánchez-Criollo, Instituto Venezolano de Investigaciones Científicas
- 55 Management and conservation strategies in Colombian Orinoquia with the participation of communities**
Carolina Mora, La Palmita Centro de Investigación
- 56 Conservation of mammals on private and community protected areas in central western Colombia**
Maria Bedoya-Duran, SNRE, Dept Wildlife Ecology & Conservation, University of Florida
- 57 Conservation through use: Use and population structure of *Mauritia flexuosa* in two ecosystems**
Carolina Isaza, Universidad Militar Nueva Granada
- 58 A holistic approach to effective management of protected areas using SMART technology in southern Belize**
Karla Hernandez Aguilar, Ya'axché Conservation Trust
- 59 Are big cats safety in protected areas in Venezuela? Situation on southwestern Lake Maracaibo basin**
Maria Puerto, Instituto Venezolano de Investigaciones Científicas (IVIC)
- 60 Cuterebriasis in free ranging *Marmosa robinsoni* in Barranquilla, Colombia – preliminary results**
Henrique Guimarães Riva, Fundacion Botanica y Zoologica de Barranquilla
- 61 Mercury concentration in humpback whales (*Megaptera novaeangliae*) sampled in Antarctica and Colombia**
Andrea Luna-Acosta, Universidad Javeriana
- 62 Good Ant, Bad Ant? Soil Engineering by Ants in the Brazilian Caatinga Differs by Species**
Pedro Leite, Texas A&M University
- 63 Prioritising conservation areas for primates in fragmented landscapes at Colombian Llanos**
Xyomara Carretero-Pinzon, Te University of Queensland
- 64 Ecosystem response to salmon farming impact in a Chilean fjord**
Claudia Elizondo Patrone



POSTER SESSIONS • WEDNESDAY 26 JULY 2017

Conservation in Latin America

SCB GROUPS

- 92 SCB Chapters - Cameroon**
Cameroon Chapter
- 93 SCB Chapters - Iran**
Iran Chapter
- 94 SCB Chapters - Korea**
Korea Chapter
- 95 SCB Chapters - Orange County**
Orange County Chapter
- 96 SCB Chapters - Santa Cruz**
Santa Cruz Chapter
- 97 SCB Chapters - Sydney**
Sydney Chapter
- 98 SCB Chapters - Texas A&M**
Texas A&M Chapter
- 99 SCB Chapters - Hawaii**
Hawaii Chapter
- 82 SCB Conservation Marketing and Engagement Working Group (ConsMark)**
ConsMark
- 83 SCB Religion and Conservation Biology Working Group (RCBWG)**
RCBWG
- 84 SCB Urban Ecology Working Group (UBWG)**
UBWG
- 85 ECCB 2018**
SCB Europe Section



MONDAY SESSIONS



MONDAY 24 JULY 2017

M



TUESDAY 25 JULY 2017

Tu



WEDNESDAY 26 JULY 2017

W



THURSDAY 27 JULY 2017

Th



LOBBY LEVEL				LEVEL 2B											LEVEL 3				
	Registration	Comercial Area	BO	Childcare	Press	Networking	BO	Office	BO	Plenary	BO	BO	BO	BO	BO	BO	BO	BO	BO
	Portico Registro	Claustro de las Animas	Sala 103	Sala 102	Sala 101	Hall de exposiciones	Secretaria General	Sala VIP II	Arsenal	Gran Salon Barahona	Barahona 1	Barahona 2	Barahona 3 (livestreaming and translation room)	Barahona 4	Sala 301	Sala 302	Sala 303	Sala 304	Sala Vip III - Technician room
Capacity in Auditorium			70	20	30		130		130	1500	250	283	386	360	70	100	100	100	40
7:30	CCC Opening																		
8:00																			
8:30	Plenary 1: Brigitte Baptiste																		
9:00																			
9:30	Coffee																		
10:00																			
10:30	Symposium 12: Engaging Members of Faith Communities in Conservation Research and Practice																		
11:00	Symposium 35: Conservation challenges and opportunities in areas of armed conflict																		
11:00	Symposium 45: Animals from the wild how much will they count in sustainable food systems of the future																		
11:00	Speed talks 1: Amphibian and reptile conservation and ecology																		
11:00	Speed talks 2: Big cats conservation																		
11:00	Speed talks 3: Biodiversity, resilience and ecosystem function																		
11:00	Speed talks 4: Conservation through partnerships																		
11:00	Symposium 87: Successful scenario planning a masterclass																		
11:00	Symposium 56: New tools for ecosystem assessment and monitoring																		
11:00	Symposium 173: The IUCN Red List as a Tool for Conservation Action in Latin America																		
11:00	Symposium 73: Key Biodiversity Area identification and safeguard development and application of the new standard																		
11:30	Contributed talks 1 Citizen science, outreach and education																		
11:30	Student Performances																		
11:30	Contributed talks 2: Conservation conflicts 1																		
11:30	Contributed talks 3: Conservation in production landscapes																		
11:30	Contributed talks 4: Landscape and spatial ecology 1																		
11:30	Contributed talks 5: Protected areas 1																		
11:30	Contributed talks 6: Alternative conservation solutions																		
11:30	Symposium 139: New technologies for novel conservation solutions																		
11:30	Contributed talks 7: Business, philanthropy and markets																		
11:30	Contributed talks 8: Broadscale monitoring and mapping																		
11:30	Contributed talks 9: Threatened species management and recovery																		
11:30	Symposium 60: The State of Social-Ecological Science in Environmental NGO Practice: A SSWG Sponsored Symposium																		
12:00																			
12:30	Conservation Marketing WG																		
12:30	W 11 Drafting Best Practice Guidelines for Engaging Faith Communities in Conservation Projects																		
12:30	W 37 Predation Risk Modeling as a Decision-Making Tool for Reducing Human-Wildlife Conflict																		
12:30	W 228 Thinking Outside the Sanctuary Effective Use of Controversial Tools to Conserve Wild Apes																		
12:30	W 67 Early Career Interdisciplinary research and practice experience exchange: Looking to the future																		
12:30	W 154 How to report on the costs of conservation interventions for better conservation decisions																		
12:30	Diversity committee forum 1: Conservation, Indigenous people and community leaders: from rights to natural resource management																		
12:30	W 27 Conservation in Colombia, from the rural and environmental studies: studies from the past 10 years																		
12:30	W 66 Informing Conservation Agendas Through Global Conversations Introducing the Ecovillage Playing Cards																		
12:30	W 97 Using Conservation Evidence to inform practical decision making																		
12:30	W 165 A global perspective of local and regional-scale aquatic ecosystem conservation and management																		
12:30	W 205 Human-centered approaches to invasive lionfish control																		
13:00																			
13:30	Lunch																		
14:00	Symposium 29: Information systems to bridge the gap between data collection and policy making																		
14:00	Knowledge cafe 1: Voices of conservation																		
14:00	Symposium 92: What is hindering the success of conservation translocations																		
14:00	Symposium 82: A Standard Framework to Convert Spatial Data into Meaningful Conservation Management Information																		
14:00	Contributed talks 10: Landscape and spatial ecology 2																		
14:00	Symposium 72: Mapping human pressures globally and the role of protected areas in mitigating biodiversity threats																		
14:00	Symposium 134: Adaptive management in Latin American Protected Areas challenges and opportunities																		
14:00	Symposium 70: Shaping the future of Conservation Technology																		
14:00	Symposium 91: Developing the scientific basis that enables businesses to support biodiversity conservation																		
14:00	Contributed talks 11: Biodiversity inventory, monitoring and mapping																		
14:00	Symposium 214: Conservation in an Urbanizing World: How is the science and practice of conservation changing																		
14:00	Contributed talks 12: Managing invasive species																		
15:00																			
15:30	Coffee+Poster Session 1: Our environment																		
16:00	Set up																		
16:30																			
17:00	Public Forum: Entrepreneurship for conservation																		
17:30																			
18:00																			
18:30	END OF THE DAY																		



MONDAY SESSIONS

SYMPOSIUM

ENGAGING MEMBERS OF FAITH COMMUNITIES IN CONSERVATION RESEARCH AND PRACTICE (*Diversity, Equity & Inclusion Journey*)

Sala 103

10:00-11:30

Jame Schaefer (Marquette University, THEOLOGY)

Based on the Best Practices Survey conducted from May 31 to September 10 by the Religion and Conservation Biology Working Group of the Society for Conservation Biology, this symposium features six presentations by Survey respondents who share their constructive engagements with leaders and members of faith communities to achieve the goals of conservation projects. Each presenter describes the project with focus on the following: (1) Its nature that required and/or benefitted from relating to faith communities; (2) knowledge of the faith of the community before beginning the project, when it was completed, and sources used to learn about them; (3) how members of the faith communities were engaged in the project; (4) the outcome of the project goals and unexpected benefits; and, (5) key factors that led to successful engagement with members of the faith communities. Shared during this symposium are projects in regional sections of the SCB: Africa--gaining information about sacred forests from reluctant indigenous Nigerians; Asia--recovering populations of mammals in collaboration with Buddhists and indigenous communities in Thailand; Latin America/ Caribbean--exploring the receptivity of the creation care principle among Christian Pentecostals in the Andes of Peru; North America--working with members of the Ho Chunk Nation in northwestern Illinois

to develop a management plan for scattered effigy and burial mounds; and, Oceana--striving to manage a community-based Tree Kangaroo conservation program with indigenous people in Papua New Guinea. An overview of the Best Practices Project precedes the presentations. Culminating the symposium is a description of and an invitation to participate in the subsequent workshop during which best practice guidelines will be drafted.



Striving to Develop Guidelines for Engaging Faith Communities in Conservation Projects
Jame Schaefer (Marquette University, THEOLOGY)

Interacting with traditional institutions on native sacred plants: case study in Nigeria
Temitope Israel Borokini (University of Nevada)

Learning to conduct ecological restoration together: non-profit & tribal collaboration in Illinois
David Ostergren (Goshen College)

Pentecostals as conservation allies in the Tropical Andes of Peru
Oscar Gonzalez (Grupo Aves del Peru)

Variation in North American Religiously Motivated Conservation Activism
David Johns (Portland State University; Wildlands Network; Marine Conservation Institute)

Religious and Conservation Collaboration Yields Success at Holy Wisdom Monastery
Sister Mary David Walgenbach (Holy Wisdom Monastery)

SYMPOSIUM

CONSERVATION CHALLENGES AND OPPORTUNITIES IN AREAS OF ARMED CONFLICT

Secretaría General
10:00-11:30

Pablo Negret, University of Queensland; Jose Manuel Ochoa Quintero, Universidad Federal de Mato Grosso do Sul; Andres Suarez Castro, University of Queensland

In the last 50 years, 80% of the world's armed conflicts have taken place in biodiversity hotspots. The presence of armed groups is commonly associated with an increase of threats to biodiversity. Consequently, decisions of how those challenges are faced in conflict areas have important consequences on the natural resource management. There is a need to account for conflict scenarios and risks in order to make informed decisions that help to meet conservation targets. This symposium will provide the opportunity to discuss how to explicitly account for conflict risks in conservation decision-making, while promoting the design of conservation strategies with positive socio-economic impacts. Additionally, it will generate a common understanding about different strategies aiming to face biodiversity conservation challenges given different conflict scenarios. International experts will share experiences on: 1. Spatial overlap patterns between conflict risk and high biodiversity areas; 2. Assessment of competing objectives in post conflict scenarios (e.g. economic development vs. conservation); 3. Effective conservation planning in conflict and post-conflict scenarios.

Complexities of conservation in regions in conflict

Duan Biggs, Griffith University

Need for conservation planning in postconflict Colombia

Pablo Negret, University of Queensland; Moreno Di Marco, The University of Queensland; Martine Maron, The University of Queensland; Hugh Possingham, The University of Queensland; James Watson, Wildlife Conservation Society

Highlighting emerging issues of a post-conflict scenario in Colombia

Jose Ochoa-Quintero, Instituto Alexander von Humboldt

Bringing up conservation and rural development in a biodiversity hotspot

Cristina Gomez Garcia-Reyes, National Natural Parks Unit

The forest frontier as the link between conflict risk coca cultivation and high biodiversity areas

Liliana Davalos, Stony Brook University

Integrating social and ecological factors in environmental decision making

Kerrie Wilson, The University of Queensland

SYMPOSIUM

ANIMALS FROM THE WILD HOW MUCH WILL THEY COUNT IN SUSTAINABLE FOOD SYSTEMS OF THE FUTURE

Arsenal
10:00-11:30
Nathalie Van Vliet, CIFOR

Whether they are obtained through hunting, fishing or harvest, wild animals continue to contribute to the diets of human populations. Our session, beyond illustrating the diversity of wild animals used in different ecosystems of the world, will foremost discuss the challenges and opportunities for wild animal foods to continue to feed humans in the future. The focus will be on understanding and discussing the tradeoffs related to the use of wild animal foods, including the ecological sustainability of the harvest, the health and food safety challenges associated with the consumption of wild foods and the competition from highly processed and industrialized meats characteristic of the nutritional transitions. In a context in which governments are under increasing pressure to balance biodiversity conservation, food security and human health, we will discuss the feasibility and effects of conserving wild animal foods in the menus of future sustainable food systems.

Wild Fauna on the menu: Challenges and opportunities for the future

Nathalie Van Vliet, CIFOR

The importance of wild meat in the global south

Martin Nielsen, University of Copenhagen

The Gordian knot: navigating through the futures of wildlife management in the Colombian Amazon

Nicole Ponta, ETH Zurich; Claude Garcia, CIRAD - ETH Zurich; Nathalie Van Vliet, CIFOR

Evaluation of drivers and impacts on wildmeat consumption in coastal Guyana South America

Anupana Puran

Wild fish and wild meat on the menu in Colombia legal opportunities and bottlenecks for the future

Juanita Gómez, Fundación Science International; Nathalie Van Vliet, CIFOR

Policy solutions for a sustainable use of wild meat in the Congo Basin: a proposed roadmap

Robert Nasi, Cifor

Recovery of Amphibian Communities in Regenerating Forest: Two Case Studies in Costa Rica

Michelle Thompson (Florida International University); Maureen Donnelly (Fiu, Biological Sciences)

Characterization of the skin-associated bacteria in *Bolitoglossa conanti* and *Plectrohyla matudai*

Alejandra Zamora Jerez (Manchester Metropolitan University); Richard Preziosi (Manchester Metropolitan University)

Translocated and Resident Eastern Box Turtles in New York: Movement Patterns and Habitat Use

Suzanne Macey (Center for Biodiversity and Conservation, American Museum of Natural History); Erin Baker (Ramapo Ridge Middle School); Rachel Betts (Centre College); J. Alan Clark (Fordham University); Megan Henriquez (Fordham University); Lisa Kelly (Tea

Surviving in unprotected landscapes: endemic amphibians of the northern Andes and human threats

Leonor Valenzuela (Wildlife Conservation Society); Daniel Osorio (Universidad Javeriana-Cali); Javier Simonetti (Facultad de Ciencias, Universidad de Chile);

Understanding the dynamic nature of host-associated microbial communities for probiotic development

Angie Estrada (Virginia Tech); Matthew Becker (Virginia Tech); Lisa Belden (Virginia Tech); Reid Harris (James Madison University); Myra Hughey (Virginia Tech); Roberto Ibáñez (Smithsonian Tropical Research Institute); Daniel Medina (Virginia Tech); Eria

Red Book of Reptiles of Colombia (2015): Update of the risks assessment of sea turtles in Colombia

Cristian Ramirez Gallego, Fundación Tortugas del Mar; Karla Barrientos Muñoz, Fundación Tortugas del Mar; Vivian Páez, Universidad de Antioquia

Inspiring sea turtle stewardship in St. Kitts with voluntary certification: The implementation phase

5-MINUTE TALKS

AMPHIBIAN AND REPTILE CONSERVATION AND ECOLOGY

Barahona 1
10:30-11:30

Dietary carotenoids enhance the cutaneous bacterial communities of the southern corroboree frog

Aimee Silla (University of Wollongong); Phillip Byrne (University of Wollongong); Casey Edwards (University of Wollongong); Peter Harlow (Taronga Conservation Society Australia)

Gentamicin inhibits bacterial contamination during chilled sperm storage in the Booroolong frog

Leesa Keogh (University of Wollongong); Phillip Byrne (University of Wollongong); Aimee Silla (University of Wollongong)



Sara Ramirez (St. Kitts Sea Turtle Monitoring Network); Kimberly Stewart (St. Kitts Sea Turtle Monitoring Network); Eric Wiener (Ramapo College of NJ)

5-MINUTE TALKS

BIG CATS CONSERVATION

Barahona 2
10:30-11:30

Snow leopard governance: Democracies, monopolies and institutionalized predators
Falk Huettmann (University of Alaska)

Leadership strategies and species recovery
Brett Bruyere (Colorado State University);
Matthew Halladay (Colorado State University)

Jaguars and Camera Traps: Habitat use and connectivity in the Mamóní Valley Preserve, Panama
Kimberly Craighead (Kaminando)

Ranchers' perceptions about institutions managing conflicts with jaguars and pumas in Costa Rica
Natalia Valverde-Zúñiga (Programa Gente y Fauna); Ronit Amit (University of Florida); Susan Jacobson (University of Florida)

Tiger conservation beyond protected area boundaries in the Central Terai Landscape, India
Rekha Warriar (Colorado State University); Barry Noon (Colorado State University);

Assessing Conservation Effectiveness of Protecting Tigers in Three Tiger Range Countries
Sumaiya Firoze (USAID Bangladesh (study leave); Masters on Environmental Conservation, UW-Madison); Terilyn Allendorf (University of Wisconsin); Janet Silbernagel (University of Wisconsin); Karl Wurster (USAID)

Participatory approach to Human-Wildlife Conflicts: Example from the Jaguar in the Bolivian Amazon
Nuno Soares (Bolivian Association for Research and Conservation of Amazonian Andean Ecosystem); Luis Arteaga (Bolivian Association for

Research and Conservation of Amazonian Andean Ecosystem); Kathrin Barboza (Bolivian Association for Research and Conserv

Interaction among four mesocarnivores an approach for multispecies conservation

Laura Jaimes Rodriguez (Independent); Valeria Boron (Durrell Institute of Conservation and Ecology)

The camera trap: An alternative approach to the study and conservation of large felines in Panama

Josue Ortega (Fundacion Yaguara Panama); Iliana Cisneros (Fundacion Yaguara Panama); Eric Flores (Panama Wildlife Conservation); Ninon Meyer (El Colegio De La Frontera Sur, Yaguara Panama); Ricardo Moreno (Department of Palynology and Climate Dynamics)

5-MINUTE TALKS

BIODIVERSITY, RESILIENCE AND ECOSYSTEM FUNCTION

Barahona 3 (livestreaming and live translation)
10:30-11:30

The contribution of predators to ecosystem services and disservices in agricultural landscapes
Matthias Tschumi (Lund University)

Dead wood availability in managed Swedish forests: Policy outcomes and implications for biodiversity
Bengt Gunnar Jonsson (Mid Sweden University)

Positive relationships between carbon storage and biodiversity are not predominant at local scales
Frederik Van de Perre (Universiteit Antwerpen); Steven Dessen (Botanic Garden Meise); Herwig Leirs (Universiteit Antwerpen); Steven Presley (University of Connecticut); Erik Verheyen (Universiteit Antwerpen); Michael Willig (University of Connecticut)

A Population viability analysis of green ash with emerald ash borer scenarios

Rachel Kappler (Bowling Green State University);
Karen Root (Bowling Green State University)

Natural Infrastructure Options for Sea Level Rise Adaptation for Coastal California

Sam Veloz (Point Blue Conservation Science); Bob Battalio (ESA); Tiffany Cheng (ESA); Maya Hayden (Point Blue Conservation Science); Jenna Judge (NOAA Sentinel Site Cooperative); Kelly Leo (The Nature Conservancy); Sarah Newkirk (The Nature Conservancy)

The extent and predictability of the biodiversity-carbon correlation

Moreno Di Marco (CSIRO); David Currie (University of Ottawa); Hugh Possingham (The Nature Conservancy); Oscar Venter (University of Northern British Columbia); James Watson (Wildlife Conservation Society)

Adaptation of vegetation to future climate change in highland sites in Southeast Asia

Fanny Langerwisch (Potsdam Institute for Climate Impact Research); Alice Boit (Potsdam Institute for Climate Impact Research); Boris Sakschewski (Potsdam Institute for Climate Impact Research); Kirsten Thonicke (Potsdam Institute for Climate Impact Resear

Hurricane Matthew Project: Documenting the coastal ecosystem costs of hurricanes on New Providence

Kathleen Sealey (University of Miami); Nikita Sheil-Rolle (Young Marine Explorers)

The role of niche breath in shaping species abundance in seasonally dry tropical forests in Colombia

Natalia Norden (Instituto Alexander von Humboldt); Gabriel Arellano (STRI); Hernando García (Instituto Alexander von Humboldt); Roy González (Instituto Alexander von Humboldt); Maria Natalia Umaña (University of Maryland)

5-MINUTE TALKS

CONSERVATION THROUGH PARTNERSHIPS

Barahona 4
10:30-11:30

Towards the Implementation of New Right-Based Management for Coastal Indigenous Communities in Chile

Luciano Hiriart-Bertrand (Costa Humboldt); Carlos I. Vargas (Costa Humboldt)

Sacred natural place and its forest, case of study saltlicks (Salados) into indigenous communities

Ana Maria Monsalve Cuartas (Lisbon University); Ignacio Sanches (Nacional University)

Conservation for Well-being: How quality of life plans can transform development in the tropics

Ashwin Ravikumar (The Field Museum); Diana Alvira (The Field Museum); Miguel Macedo (The Field Museum); Alonso Perez (The Field Museum); Paula Tallman (The Field Museum); Alaka Wali (The Field Museum)

Selva Lacandona priority endangered species: Current state and actions for their conservation

Francisco Roldán Velasco (Comisión Nacional de Áreas Naturales Protegidas (CONANP)); Sergio Montes Quintero (Comisión Nacional de Áreas Naturales Protegidas (CONANP)); Angélica Zambrano Ríos (Comisión Nacional de Áreas Naturales Protegidas (CONANP))

Stakeholders' perspectives on species management, prioritising actions to preserve our biodiversity

Hernan Caceres (The University of Queensland); Scott Atkinson (University of Queensland); Katrina Davis (University of Queensland); Salit Kark (The University of Queensland)

Community perceptions on frailejon at high mountain landscape in Colombia

Erika Salazar (Pontificia Universidad Javeriana); Amanda Varela (Pontificia Universidad Javeriana)



Tourism as a strategy for the long-term sustainability of community-based conservation project

Fanny Cornejo (Yunkawasi; Stony Brook University); Fanny Fernandez-Melo (Yunkawasi); Julia Goss (Yunkawasi); Carlos Jimenez (Yunkawasi); Vanessa Luna-Celino (Yunkawasi); Wilhelm Osterman (Yunkawasi); Elizabeth Sperling (Yunkawasi); Carlos Tello (Yunkawasi)

Promoting community-based management of fisheries resources in the Colombian Pacific coast

Pilar Herron (Ecomares Foundation); Adriana Arcos (Biocomercio Sostenible); Silvana Espinosa (Independent); Bernardo Orobio (Fondo Accion Ambiental)

presentations will be followed by an open discussion, which is designed in part to facilitate new research collaborations between audience members seeking to conduct their own scenario planning analysis.

Scenario planning: a tool for conservation

Sean Maxwell, The University of Queensland

Priority areas for landscape protection and restoration in the face of climate change

April Reside, University of Queensland; Diana Fisher, University of Queensland; Sean Maxwell, The University of Queensland; James Trezise, Australian Conservation Foundation; James Watson, Wildlife Conservation Society

Balancing carbon, forestry, indigenous and mining values in the Congo

Hedley Grantham, Wildlife Conservation Society; Djoan Bonfills, World Resources Institute; Fiona Maisels, WCS; Tim Rayden, Wildlife Conservation Society; Samantha Strindberg, Wildlife Conservation Society; Ayesha Tulloch, University of Queensland

Overcoming barriers for large-scale revegetation in a degraded agroecosystem of south Ecuador

Antonio Crespo, Universidad del Azuay; Karla Pintado, Universidad del Azuay

Minimising the cumulative impacts of urban expansion scenarios for 600 species

Brendan Wintle, University of Melbourne; Heini Kujala, University of Melbourne; Amy Whitehead, University of Melbourne

Panel discussion

SYMPOSIUM

NEW TOOLS FOR ECOSYSTEM ASSESSMENT AND MONITORING

Sala 302

10:00-11:30

Lucie Bland, The University of Melbourne

Developing ecosystem indicators to assess progress towards the Aichi 2020 Targets remains a challenge, as ecosystems are complex in nature, scale-dependent, and data-intensive to monitor. Integrating long-term



SYMPOSIUM

SUCCESSFUL SCENARIO PLANNING

Sala 301

10:00-11:30

Hedley Grantham, Wildlife Conservation Society;
Sean Maxwell, The University of Queensland

Scenario planning is a rare example of science bridging the implementation gap. Originally used by governments and businesses to improve their long-term decision-making, scenario planning is now being applied to address conservation challenges. But care must be taken to ensure that a wider application of the approach is met with a complete understanding of its strengths and weaknesses. Scenario planning resonates with laypeople because it can evaluate trade-offs between conservation, development and societal goals, and thereby allow more transparent and robust management decisions to be made. Successful scenario analysis is interdisciplinary, requiring expert elicitation, modelling and dissemination skills, and often requires forging new research collaborations. This symposium will present a scenario planning masterclass, detailing six case studies where the approach has solved conservation challenges on the ground. Case studies will cover interactions with government, non-government and public stakeholders, and involve three major conservation challenges; threatened species management, the delivery of ecosystem services and climate change adaptation. The aim of the symposium is to provide an improved understanding of scenario planning methodology, as well as the benefits and pitfalls of the approach. The symposium

field studies and remotely-sensed data, together with a conceptual understanding of ecosystem processes and drivers of change, can provide a powerful basis for quantifying ecosystem change. This symposium focuses on new tools for tracking the status of ecosystems, including Essential Biodiversity Variables for ecosystem structures and functions developed by GEO BON (Group on Earth Observations Biodiversity Observation Network) and IUCN Red List of Ecosystems risk assessments. By showcasing case studies from a wide range of ecosystems – from the Meso-American Reef to forests of eastern Australia – the symposium will illustrate common challenges and solutions in ecosystem monitoring schemes. We will address the need for consistent ecosystem classifications, a strong understanding of ecosystem processes, wise selection of indicators, and implementation of predictive models for monitoring ecosystems from local to global scales. These advances promise an evidence-based monitoring process for ecosystems that will further enhance our ability to assess progress towards Aichi targets and support ecosystem conservation.

Towards a global typological framework to support Red Listing of ecosystems

David Keith, Centre for Ecosystem Science, University of NSW

Indicators of collapse for ecosystem risk assessments

Jessica Rowland, Deakin University; Lucie Bland, The University of Melbourne; Matthew Linn, Deakin University; Emily Nicholson, Deakin University

Using multiple lines of evidence to assess the risk of ecosystem collapse

Lucie Bland, The University of Melbourne; Minh Dinh, University of Queensland; Renata Ferrari Legorreta, The University of Sydney; David Keith, NSW National Parks & Wildlife; Rebecca Lester, Deakin University; David Mouillot, Université Montpellier 2; Nic

Ecosystem conceptual models at multiple spatial scales help piece together the biodiversity puzzle

Eren Turak, NSW Office of Environment and Heritage; Tom Barrett, Office of Environment and Heritage; Michael Drielsma, NSW Office of Environment and Heritage; Jan Miller, NSW Office of Environment and Heritage; Emily Nicholson, Deakin University; Nathalie

Assessment of the quality of input data to apply the criteria of the IUCN Red List of ecosystems

Alberto Alaniz, Magíster en Áreas Silvestres y Conservación, University de Chile, CFT Medio Ambiente IDMA; Mauricio Galleguillos, Universidad de Chile; Jorge Pérez-Quezada, Universidad de Chile

Panel discussion

SYMPOSIUM

THE IUCN RED LIST AS A TOOL FOR CONSERVATION ACTION IN LATIN AMERICA

Sala 303

10:00-11:30

Thomas Lacher, Texas A&M University

Recent research has documented the global decline in biodiversity and media outlets have communicated these concerns to the public. The emphasis has historically been on “charismatic megafauna”, primarily large mammals and birds; other lesser-known groups receive little publicity and relatively little financial investment. However many of these overlooked groups serve critical roles in maintaining functional tropical ecosystems, and can serve as more sensitive indicators of habitat degradation and climate change. Small species also often have restricted ranges, high levels of habitat specificity, and are more susceptible to extinction than wider ranging larger species. In addition, small species are vulnerable to local scale drivers that can be ignored with larger species. Their conservation therefore will require emphasis on local, community driven actions that require interdisciplinary solutions. We will discuss the value of the IUCN Red List as a tool for addressing conservation action, and use example assessments of species of smaller body size, smaller geographic distributions, and higher sensitivity to disturbance. We follow with the importance of addressing climate vulnerability into the assessment of these groups. We argue that our focal species have high value in designing local or national conservation plans, and can lead to more effective site-specific conservation actions.

The Brazilian National Species Red List and the National Biodiversity Strategy and Action Plan

Carolina Marques, International Union for Conservation of Nature; Danielli Kutschenko,



International Union for Conservation of Nature; Miguel Moraes, International Union for Conservation of Nature

The IUCN Red List in Conservation Action: The Conservation Value of Saving the Small

Thomas Lacher, Texas A&M University; Nicolette Roach, Texas A&M University

Small Mammal Assessments as a Tool for Addressing Threats to Habitat Specialists

Nicolette Roach, Texas A&M University; Rosalind Kennerley, Durrell Wildlife Conservation Trust; Thomas Lacher, Texas A&M University; Richard Young, Durrell Wildlife Conservation Trust

From assessment to conservation: Using The IUCN Red List of Threatened Species to protect amphibians

Sally Wren, University of Otago, IUCN SSC Amphibian Specialist Group; Jennifer Luedtke, IUCN SSC Amphibian Specialist Group; Kelsey Neam, Global Wildlife Conservation, IUCN SSC Amphibian Specialist Group

Mesocarnivore Decline and their Role in Ecosystem Function

Jan Schipper, Arizona Center for Nature Conservation, Phoenix Zoo; Christine Breitenmoser, IUCN Cat Specialist Group; Nicole Duplaix, Oregon State University; José González-Maya, ProCAT Colombia, Sierra to Sea Costa Rica

Integrating Assessments of Climate Vulnerability into Species Assessments

Iara Lacher, Smithsonian Conservation Biology Institute

The 2016 World Conservation Congress marked the culmination of 12 years of work to consolidate an umbrella standard for the identification of Key Biodiversity Areas (KBAs) and launch a partnership of 11 international conservation organisations to support this identification. The process was led by a joint taskforce led by the IUCN Species Survival Commission and World Commission on Protected Areas, and built from four decades of effort to identify important sites for different elements of biodiversity (e.g. IBAs, AZEs). This new standard and partnership serve critical roles at the interface between conservation science, policy, and practice. The science underlying the standard draws from state-of-the-art techniques in biodiversity monitoring, risk assessment, and systematic conservation planning. In terms of policy, it serves central roles in implementation and monitoring of national and international instruments including Aichi Target 11 of the Strategic Plan for Biodiversity 2011–2020 and the Sustainable Development Goals 14 and 15. The practical applications of KBA identification are deeply rooted, guiding conservation action at local and national levels, investment through financial mechanisms like the Global Environment Facility and the Critical Ecosystem Partnership Fund, and safeguards under the International Finance Corporation's Performance Standard 6. This symposium, convened by IUCN and BirdLife International on behalf of the KBA Partnership, will discuss these themes of KBA science, policy, and practice, giving particular attention to assessment of the rationale for – and advantages and disadvantages of – decisions made in the process.

The new global KBA Standard

Penny Langhammer, Global Wildlife Conservation; Annabelle Cuttelod, IUCN; Stephen Woodley, IUCN - World Commission on Protected Areas

The KBA identification process and key actors

Zoltan Waliczky, BirdLife International; David Diaz, BirdLife; Penny Langhammer, Arizona State University

Organisation of the new KBA Programme and Partnership

Thomas Brooks, IUCN; Melanie Heath, BirdLife International; Jane Smart, IUCN; Simon Stuart, Synchronicity Earth; Zoltan Waliczky, BirdLife International

SYMPOSIUM

KEY BIODIVERSITY AREA IDENTIFICATION AND SAFEGUARD DEVELOPMENT AND APPLICATION OF THE NEW STANDARD

Sala 304

10:00-11:30

Thomas Brooks, IUCN; Zoltan Waliczky, BirdLife International

Key Biodiversity Areas for Investment in the Tropical Andes

Healy Hamilton, NatureServe; Leslie Honey, NatureServe; Carmen Josse, EcoCiencia Foundation; Regan Lyons Smyth, NatureServe; Bruce Young, NatureServe

Application of the new Key Biodiversity Area KBA criterion for ecological integrity

Martin Robards, Wildlife Conservation Society; Justina Ray, Wildlife Conservation Society Canada

End-Users of KBA Data: The KBA Consultative Forum

Daniela Raik, Conservation International

Citizen Science Surveys of Urban Biodiversity Inform Land-Use Policy and Management

Sarah Reed (Wildlife Conservation Society); Liba Pejchar (Colorado State University)

Overcoming the Wallacean shortfall in Colombia through collaborative mapping

Jorge Velásquez-Tibatá, Instituto Humboldt; Iván González, Instituto Humboldt; César Gutiérrez, Instituto Humboldt; María Londoño-Murcia, Instituto Humboldt; Daniel López, Instituto Humboldt; María Olaya Rodríguez, Instituto Humboldt

Lessons from three years on the prairie

Nina Hadley (Adventure Scientists)

Urban Elementary School Garden Importance

Amy Goodall (James Madison University)

12-MINUTE TALKS

CITIZEN SCIENCE, OUTREACH AND EDUCATION

Sala 103

11:30-13:00

John Cigliano, SCB Citizen Science Working Group

Publication rates and presenter demographics at the 25th ICCB (Auckland 2011)

Luis Verde Arregoitia (Universidad Austral de Chile)

What works? A quarter century of lessons learned from conservation education program evaluation

Rebecca Thomas (Slippery Rock University); Tara Teel (Colorado State University)

Carpe diem: A tool to automatically detect and identify animal species from camera traps

Andrea Perino (University of Leipzig); Henrique Miguel Pereira (German Centre for Integrative Biodiversity Research (iDiv), Halle - Jena - Leipzig)

Kids Camera Trap Mammals Around the World: Using eMammal to Create Natural and Cultural Connections

Stephanie Schuttler (North Carolina Museum of Natural Sciences); Liz Baird (North Carolina Museum of Natural Sciences); Rob Dunn (North Carolina State University); Kimberly Kandros (North Carolina Department of Natural and Cultural Resources); Roland Kays

12-MINUTE TALKS

CONSERVATION CONFLICTS 1

Secretaría General

11:30-13:00

Human-Lion Conflict on the Edge of Cattle-Dominated Areas in the western Okavango Delta, Botswana

Carolyn Whitesell (University of California, Davis); Ben Sacks (University of California, Davis); Christian Winterbach (Tau Consultants (Pty) Ltd)

Co-existence in a Tiger Reserve in India: Complex interactions between people wildlife and forests

Gladwin Joseph (Conservation Biology Institute)

Carnivore distributions and human-carnivore conflicts: Wild canids in India as a case study

Arjun Srivathsa (University of Florida)

Predicting attacks of elephants and carnivores on African farms

Jens Jung (SLU)

Conservamos La Vida: Andean bear conservation at the landscape scale

Diana Cuevas (Fundación del Grupo); Claudia



Avecedo (Parques Nacionales Naturales de Colombia); Guillermo Bianchi (Universidad de Los Andes); Jaime Celis (Parques Nacionales Naturales de Colombia); German Forero-Medina (Wildlife Conservation Society); Pad

Understanding human-wildlife conflict: Lessons from case studies across the jaguar range

Alexandra Zimmermann (Oxford University)

Battlefields and Borders: The Past and Future of Collateral Values

Peter Smallwood (University of Richmond)

(IUCN); Craig Hilton-Taylor (IUCN); Sara Scherr (Ecoagriculture Partners); Jane Smart (IUCN)

Biodiversity and beyond: Quantifying the global co-benefits of source water protection

Jorge Leon (The Nature Conservancy); Alejandro Calvache (The Nature Conservancy); Robin Abell (The Nature Conservancy); Leah Bremer (Natural Capital Program); Emily Chapin (The Nature Conservancy); Andrea Erickson-Quiroz (The Nature Conservancy); Jonathan

Conservation and Cattle Production: Improving the Matrix Through Silvopasture

Lillian Kline (University of Michigan)

Conserving Neotropical forest bird populations in tropical agricultural countryside

Cagan Sekercioglu (University of Utah); Federico Brenes (Wilson Botanical Garden); Gretchen Daily (Stanford University); Paul Ehrlich (Biological Sciences); Joshua Horns (University of Utah); Chase Mendenhall (Stanford University);

12-MINUTE TALKS

CONSERVATION IN PRODUCTION LANDSCAPES

Arsenal

11:30-13:00

Future trade-offs between biodiversity conservation and agricultural production

Tomas Vaclavik (UFZ - Helmholtz Centre for Environmental Research); Ruth Delzeit (Kiel Institute for the World Economy); Ralf Seppelt (UFZ - Helmholtz Centre for Environmental Research); Florian Zabel (Ludwig Maximilians University Munich)

Conserving felids across agricultural landscapes in Colombia: An interdisciplinary perspective

Valeria Boron (Durrell Institute of Conservation and Ecology); Andres Link (Universidad de los Andes); Douglas Macmillan (University of Kent); Esteban Payan (Panthera Colombia); Joseph Tzanopoulos (University of Kent); Panteleimonis Xofis (Department of L

How the protection of old-growth forest could create a better tomorrow for local community

Wieslaw Walankiewicz (Siedlce University of Natural Sciences and Humanities); Dorota Czeszczewik (Siedlce University of Natural Sciences and Humanities); Agnieszka Ginter (Siedlce University of Natural Sciences and Humanities)

Threat or Habitat? A Global Analysis of the Costs and Benefits of Agriculture for Biodiversity

Nicholas Macfarlane (IUCN); Thomas Brooks

12-MINUTE TALKS

LANDSCAPE AND SPATIAL ECOLOGY 1

Barahona 1

11:30-13:00

Does local vegetation coverage or adjacent land use drive vegetation diversity in buffers?

Ashlee Nichter (Bowling Green State University); Andrew Gregory (Bowling Green State University)

Local habitat characteristics drive diversity of urban floral visitor communities

Manuel Lequerica (The University of Sydney)

Seed fate of the threatened and largest palm alive

Marina Fleury (Universidad de Chile; IEB & CFCN); Ramiro Bustamante (Universidad de Chile; IEB); Luis Alberto González (Universidad de Chile; CFCN); Francisco Peña-Gomez (Universidad de Chile/IEB); Diana Polania-Caviedes (Universidad de Chile; IEB); Gabri

Farm management and biodiversity: Conserving reptiles and frogs in grazing landscapes

Stephanie Pulsford (Australian National University)



Temporal and individual variations in resource selection of reintroduced species: Asiatic Wild Ass

Miriam Tsalyuk (Ben Gurion University); Shirli Bar David (Ben-Gurion University); Amos Bouskila (Ben Gurion University); David Saltz (Ben Gurion University)

How do globally changing mangrove fragments impact extinction risk of endemic birds?

Ryan Huang (Duke University); Chandra Giri (Environmental Protection Agency); Stuart Pimm (Duke University)

The Importance of Incorporating Regional Variation into Conservation Planning and Species Management

Jeffrey Evans (The Nature Conservancy); Kevin Doherty (U.S. Fish and Wildlife Service); Darryl MacKenzie (Proteus Wildlife Research Consultants); Melanie Murphy (University of Wyoming)

Using impact evaluation techniques to generate novel insights into MPA effectiveness.

Dominic Andradi-Brown (WWF-US); Gabby Ahmadia (WWF-US); Helen Fox (National Geographic Society); Louise Glew (WWF-US); Jill Harris (WWF-US); Ismu Hidayat (Conservation International); Purwanto (The Nature Conservancy-Indonesia)

Comparing two methodological approaches used to quantify the effectiveness of Protected Areas.

Julien Terraube (University of Helsinki); Guillaume Blanchet (University of Sherbrooke); Mar Cabeza (University of Helsinki); Johanna Eklund (University of Helsinki)

Human costs of enforcement and compliance in No-Take Marine Protected Areas (NTMPAs)

Sofia Castello Y Tickell (University of Oxford); E.J. Milner-Gulland (University of Oxford)

Examining the Social Impacts of Marine Protected Areas on Local Communities in West Papua Indonesia

Kelly Claborn (World Wildlife Fund); Louise Glew (World Wildlife Fund); Michael Mascia (Conservation International); Phillip Mohebalian (World Wildlife Fund); Fitryanti Pakiding (University of Papua)

12-MINUTE TALKS

PROTECTED AREAS

Barahona 2
11:30-13:00

Conservation status of large terrestrial mammals in protected forests across the Isthmus of Panama

Ninon Meyer (El Colegio de la Frontera Sur, Yaguara Panama); Antonio de la Torre (Instituto de Ecología, UNAM); Helen Esser (Wageningen University); Patrick Jansen (Wageningen University)

Beyond total area New metrics for measuring progress in building robust protected area networks

Carly Cook (Monash University)

Conservation and Management in Amazonian Protected Areas by Participatory Biodiversity Monitoring

Cristina Tofoli (IPÊ - Instituto de Pesquisas Ecológicas (Institute for Ecological Research)); Katia Ribeiro (Instituto Chico Mendes de Conservação da Biodiversidade (ICMBio)); Paulo Henrique Bonavigo (IPÊ - Instituto de Pesquisas Ecológicas (Institute fo

12-MINUTE TALKS

ALTERNATIVE CONSERVATION SOLUTIONS

Barahona 3 (livestreaming and live translation)
11:30-13:00

Fire Culture and the State: Natural Resource Governance for Effective Biodiversity Conservation

Dana Baker (Duke University)

Tracking medium-term impacts of conservation projects on human well-being in Northern Cambodia

E.J. Milner-Gulland (University of Oxford); Emilie Beauchamp (University of Oxford)



Linking conservation with green economy- strategies and initiatives in the Western Ghats of India

Jayant Sarnaik (Applied Environmental Research Foundation(AERF))

Peace is much more than doves: Economic benefits of birding tourism as a result of peace in Colombia

Jorge Maldonado (Universidad de los Andes); Aaron Bruner (CSF); Sophia Espinoza (Conservation Strategy Fund); Natalia Garzon-Vargas (Universidad de los Andes); Rocio Moreno-Sanchez (CSF); John Myers (Audubon)

The Knowledge-Doing Gap in the Galapagos Islands: Invasive Species Research and Management

Jaime Ortiz (Cornell University)

New echoes of a historical MPA: Governance and perspectives of Isla Lobos de Tierra in Peru

Daniela Lainez Del Pozo (University College London)

sensing, interactive data visualisation, virtual reality, augmented reality, gaming, and how mobile phones can be used to improve conservation management. As the scope and potential of conservation technology continues to expand, there has been no better time to explore how these innovations can help us address key conservation challenges and deliver effective conservation outcomes.

Pokémon Go: Benefits, Costs, and Lessons for the Conservation Movement

Leejiah Dorward, Department of Zoology, University of Oxford; John C. Mittermeier, School of Geography and the Environment, University of Oxford; Chris Sandbrook, UNEP World Conservation Monitor - Department of Geography, University of Cambridge; Fiona Sp

A World for Every Classroom

John Krajewski, Strange Loop Games Inc

The use of conservation drones to improve protected area management

Barbara Bollard Breen, Auckland University of Technology; Ashray Doshi, Auckland University of Technology; Neil Gilbert, Constantia Consulting; Rebecca Jarvis, Institute for Applied Ecology New Zealand, Auckland University of Technology

Conservation drones: Quantifying wildlife monitoring accuracy using birds

Jarrod Hodgson, University of Adelaide; Lian Pin Koh, Eth Zurich

Harnessing the mobile revolution to improve small-scale fisheries management

Jennifer Chapman, Blue Ventures

Panel discussion

12-MINUTE TALKS

BUSINESS, PHILANTHROPY AND MARKETS

Sala 301
11:30-13:00

Program Management Successes and Failures - Lessons from a Donor Perspective

Karolyn Upham (USAID); Karl Wurster (USAID)

SYMPOSIUM

NEW TECHNOLOGIES FOR NOVEL CONSERVATION SOLUTIONS

Barahona 4

11:30-13:00

Barbara Bollard Breen, Auckland University of Technology

Conservation researchers and practitioners are increasingly turning to technology to develop novel, interdisciplinary solutions to conservation challenges. As such, the field of conservation technology is rapidly expanding around the world. Conservation technologies provide accessible and cost-effective tools to improve monitoring, encourage stakeholder participation, and improve decision-making processes. In addition, the rapid increase in conservation technology has encouraged our capacity to innovate, problem solve, experiment, learn, and collaborate. As a result, conservation technology is changing the face of conservation. In this symposium we explore a range of different conservation technologies, and discuss how these technologies provide new opportunities for us to achieve our conservation goals. Talks will cover a range of technologies, including conservation drones, remote

Equity and Fairness in PES: An assessment of communal payments for environmental services in Ecuador

Felipe Murtinho (Seattle University); Tanya Hayes (Seattle University)

Success of three market-based conservation strategies

Zuzana Burivalova (Princeton University)

The role of communal governance in incentive-based approaches to collective resource management

Tanya Hayes (Seattle University); Felipe Murtinho (Seattle University)

Crowdfunding conservation

Eduardo Gallo-Cajiao (University of Queensland); Carla Archibald (The University of Queensland); Rachel Friedman (University of Queensland); Richard Fuller (University of Queensland); Euan Ritchie (Deakin University)

Assessing the potential of human consumption to reduce the threat of invasive lionfish in Belize

Jennifer Solomon (Colorado State University); Jennifer Chapman (Blue Ventures); Marc Fruitema (Blue Ventures); Philip Krening (Colorado State University); Julie Sabattis (Colorado State University)

12-MINUTE TALKS

BROADSCALE MONITORING AND MAPPING

Sala 302
11:30-13:00

Global forest loss disproportionately erodes biodiversity in intact landscapes

Matthew Betts, Oregon State University, Global Trophic Cascades Program; Christopher Wolf, Oregon State University, Global Trophic Cascades Program; William J. Ripple, Oregon State University, Global Trophic Cascades Program; Ben Phalan, Oregon State University, University of Cambridge; Kimberley A. Millers, Oregon State University; Adam Duarte, Oregon State University; Stuart H.

M. Butchart, University of Cambridge, BirdLife International; Taal Levi, Oregon State University

Satellite-based estimates of deforestation rates in the Brazilian Amazon over the last 40 years.

Diana Marcela Velasco (JRC); Rene Beuchle (JRC)

The BILBI modelling framework: Producing a new generation of global biodiversity indicators

Andrew Hoskins (CSIRO); Simon Ferrier (CSIRO); Tom Harwood (CSIRO); Noboru Ota (CSIRO); Justin Perry (CSIRO); Chris Ware (CSIRO); Kristen Williams (CSIRO)

Land use change and human exploitation driving precipitous declines in South East Asian birds

William Symes (National University of Singapore); L. Roman Carrasco (National University of Singapore); David Edwards (University of Sheffield); Jukka Miettinen (National University of Singapore); Frank Rheindt, National University of Singapore

Robust monitoring of forest cover for conservation schemes in Mexico: Global vs National maps

Stephane Couturier (Universidad Nacional Autónoma de México (UNAM)); Dr Jean-Francois Mas (Centro de Investigaciones en Geografía Ambiental (CIGA)); Mtro. Javier Osorno-Covarrubias (Instituto de Geografía (IGG))

Measuring Urban Biodiversity: New Web Portal to Support the City Biodiversity Index

Juan De Dios Morales (City Biodiversity Index Coalition)

Sharpening the resolution of biodiversity indicators transforms global picture of status and trends

Simon Ferrier (CSIRO); Tom Harwood (CSIRO); Andrew Hoskins (CSIRO); Chris Ware (CSIRO); Kristen Williams (CSIRO)



12-MINUTE TALKS

THREATENED SPECIES MANAGEMENT AND RECOVERY

Sala 303
11:30-13:00

Mapping the path of the biggest fish: The whale Shark from the Mexican Pacific side

Deni Ramirez (Whale Shark México)

Is there sufficient evidence to warrant a cull of the threatened Mauritius fruit bat?

Simon Tollington (North of England Zoological Society)

Comparative Public Administrative (CPA) Analysis a Novel Tool for Transboundary Conservation

Krista Lyons (Boise State University)

Estimating relatedness in captive breeding for translocation programmes to enhance species recovery.

Stephanie Galla (University of Canterbury); Marie Hale (University of Canterbury, School of Biological Sciences); Richard Maloney (Department of Conservation, Science and Policy Group); Anna Santure (University of Auckland, School of Biological Sciences);

Novel methods for species identification from samples with mixed DNA in large ecological studies

Shaili Johri (University of Washington); Samuel Wasser (University of Washington)

Are sea otters the solution for coastal restoration in the northeast Pacific?

Brent Hughes (UC Santa Cruz); Kathryn Beheshti (University of California Santa Cruz); Lilian Carswell (U.S. Fish and Wildlife Service); Brian Silliman (Duke University); M. Tinker (U.S. Geological Survey); Susan Williams (UC Davis-bodega Marine Lab)

Conservation genomics of tuturuatu, an endangered New Zealand endemic shorebird

Ilina Cubrinovska (University of Canterbury); Tammy Steeves (University of Canterbury)

SYMPOSIUM

THE STATE OF SOCIAL-ECOLOGICAL SCIENCE IN ENVIRONMENTAL NGO PRACTICE: A SSWG SPONSORED SYMPOSIUM

Diversity, Equity and Inclusion Journey

Sala 304
11:30-13:00

Catherine Christen, SCBI; Rebecca Garvoille, Denver Zoo

Recent scholarship discusses the state of social-ecological science (SES): research that integrates the social and natural sciences to address current conservation challenges and their drivers across the globe. This literature offers recommendations to scientists on how to more effectively approach these kinds of interdisciplinary collaborations. For example, Moon and Blackmon (2014) encourage natural scientists to learn more about the philosophical principles and theoretical assumptions of social science disciplines. However, there is limited understanding about how these SES insights are being applied at the project-level across environmental non-governmental organizations (ENGOS), and if ENGO experiences with SES differ from theory. Environmental NGOs operate at local-to-global scales, focus on concrete actions to conserve biodiversity, are mission-driven and have varying resources. This symposium addresses key questions pertinent to ENGO practice: What does it take to effectively integrate the natural and social sciences in conservation projects across the spectrum of ENGOS? How do problems of understanding, philosophy, capacity and method play out in ENGO projects? From an ENGO perspective, what are the limits to a SES approach? What do ENGO social scientists think about the efficacy of SES approaches? ENGO scientists leading SES projects will discuss their experiences and provide recommendations on advancing interdisciplinary conservation solutions in an era of rapid global change.

A SES Approach to Community-Based Reticulated Giraffe Conservation in Northern Kenya

David O'Connor, San Diego Zoo Institute for Conservation Research & Senckenberg Bik-F & Goethe U



Expanding conservation monitoring, evaluation and learning tools to embrace complexity

Shauna Mahajan, World Wildlife Fund;
Gabriella Ahmadia, World Wildlife Fund; Emily Darling, Wildlife Conservation Society; Helen Fox, National Geographic Society; Louise Glew, World Wildlife Fund-U.S.; Michael Mascia, Conservation International; Katherine

A rights-based approach to collaborating with Indigenous People in Bolivia, Ecuador and Peru

Robert Wallace, Wildlife Conservation Society;
Zulema Lehm, Wildlife Conservation Society

Using the nexus between Traditional Knowledge and Western Science to Advance Conservation Globally

Cristina Eisenberg, Earthwatch Institute; Mike Bruised Head, University of Lethbridge; Kansie Fox, Kainai Environmental Protection Agency; Leroy Little Bear, University of Lethbridge

Integrating SES at Smithsonian-Mason School of Conservation & Smithsonian Conservation Commons

Kate Christen, Smithsonian Conservation Biology Institute

Social-Ecological Science in the Field: Human Well-Being and Community Conservation in Kenya

Jessica Musengezi, The Nature Conservancy

use biodiversity data, much remains to be done to effectively translate these data into an information that can be directly used by policymakers and decision-makers. It is the objective of this session to address this issue by discussing and showcasing the process of transforming the biodiversity data into an information that can trigger a response from the policy makers.

Assessing the Cost of Global Biodiversity and Conservation Knowledge

Diego Juffe-Bignoli, UNEP-World Conservation Monitoring Centre

Communication of National and Subnational Indicators for decision makers

Maria Londono, Instituto Alexander von Humboldt; Ivan Gonzalez, Instituto Alexander von Humboldt

A Digital Observatory for Protected Areas (DOPA) to support decision and policy making

Grégoire Dubois, Joint Research Centre of the European Commission

Map of Life - Data, Models and Tools in Support of National Biodiversity Monitoring and Policy

Walter Jetz, Yale

Assessing alien and invasive parrot impacts in Europe using a transparent evidence-mapping framework

Rachel White, University of Brighton

Panel discussion

SYMPOSIUM

INFORMATION SYSTEMS TO BRIDGE THE GAP BETWEEN DATA COLLECTION AND POLICY MAKING

Sala 103

14:30-16:00

Grégoire Dubois, Joint Research Centre of the European Commission

A number of large biodiversity information systems have been developed to improve the access and sharing of biodiversity data. Ideally, these data should contribute directly to decision and policy making to support biodiversity conservation. While we have been strengthening our capacity to mobilize and

KNOWLEDGE CAFÉ

VOICES OF CONSERVATION

Hall de exposiciones

14:30-16:00

Honoring pastoralists

Brett Bruyere (Colorado State University)

The Taboo Dialogue: Indigenous peoples, conservation and land rights

John Goedschalk (Conservation International);
Gwendolyn Smith (ATTUNE)

Maximize effectiveness of environmental education through a applying human ecology approach

Huyen Do (Gaia Nature Conservation)

Strategies for increasing human diversity in authorship of high impact publications

Sacha Vignieri (AAAS; Science)

Love thy neighbour: Developing trust and partnership between park authorities and local communities

Tuyeni Mwampamba (Universidad Nacional Autonoma de Mexico); Salamatu Fada (Bangor University); Matt Hayward (Bangor University); Audu Katagum (Bauchi State Government); Habu Mamman (Yankari Game Reserve); Andrew Pullin (Bangor University)

Tackling conservation challenges through Storytelling

Jennifer Croes (Jennifer Croes Consulting and Jungle Jenn Productions Pty Ltd)

Participatory rural appraisal methods for conservation

Daniela Lainez Del Pozo (University College London); Jennifer McRuer (UofS and DICE); Holly Niner (UCL)

Increasing quality and diversity in field science education

Catherine Macdonald (Abess Center for Ecosystem Science and Policy)

Case Studies in Conservation: Opportunities for learning

Martha Groom (University of Washington); Tuyeni Mwampamba (Universidad Nacional Autonoma de Mexico)

Translocations are a common conservation and management strategy, but despite their popularity, translocations are a high-cost endeavor with a history of failures. It is therefore imperative to maximize the success of translocations by learning from past successes and failures. We reviewed the IUCN's Global Re-introduction Perspectives Series, making use of its highly structured format to extract all the difficulties that were reported by wildlife managers to hinder the success of their translocation programs. The over 1,000 difficulties reported provide an invaluable examination of the common "spokes in the wheels" of this popular management tool. In this symposium we will review these difficulties and then explore five of the most common ones encountered by wildlife managers translocating animals for conservation purposes – monitoring difficulties, animal behavior issues, lack of public support, predation, and diseases. Each of the talks will offer possible solutions that can alleviate these difficulties and increase the chances of translocation success. The symposium is aimed at giving wildlife managers applicable tools that would help them in preparing future translocations programs.

What is hindering the success of conservation translocations?

Oded Berger-tal, Ben-Gurion University of the Negev; Daniel Blumstein, Dept Ecol & Evolution Biology; Ron Swaisgood, San Diego Zoo Global

Monitoring for Success in Species Translocations

Robert Gitzen, Auburn University; Oded Berger-tal, Mitrani Department of Desert Ecology, Ben-Gurion University of the Negev; David Jachowski, Department of Forestry and Environmental Conservation, Clemson University

Using behavioral ecology to improve reintroduction outcomes

Debra Shier / San Diego Zoo Institute for Conservation Research

Translocation success for dibblers *Parantechinus apicalis* is explained by invertebrate abundance

James Friend, Dept Parks and Wildlife; Carole Lerch, Ecole Nationale Vétérinaire de Toulouse

Parasites and pathogens in reintroductions and translocations

Hamish McCallum, Griffith University; Stephanie

SYMPOSIUM

WHAT IS HINDERING THE SUCCESS OF CONSERVATION TRANSLOCATIONS?

Secretaría General

14:30-16:00

Oded Berger-tal, Ben-Gurion University of the Negev



Godfrey, University of Otago; Sarah Keatley, Murdoch University; Alan Lymbery, Murdoch University; Erin Muths, USGS; Amy Northover, Murdoch University; Andrew Thompson, Murdoch University; Adrian Wayne, Depa

Driving the need for conservation translocations
Typhenn Brichieri-Colombi, Centre for Conservation Research, Calgary Zoological Society; Axel Moehrensclager, Centre for Conservation Research, Calgary Zoological Society

SYMPOSIUM

A STANDARD FRAMEWORK TO CONVERT SPATIAL DATA INTO MEANINGFUL CONSERVATION MANAGEMENT INFORMATION

Arsenal
14:30-16:00

Samuel Jantz, the Jane Goodall Institute; Nick Salafsky, Foundations of Success

In recent years, expansion in the scale and the scope of our conservation work has required that we integrate conceptual and spatial conservation planning. There is also a growing torrent of geospatial data on ecosystems and species from remote sensing tools and crowdsourcing platforms. Satellite images showing changes in forest cover. Ranger patrols mapping poaching snares. Community projects conducting stakeholder analyses. Donors assessing results of conservation interventions. And there is a proliferation of systems for managing these data. We need a standard framework for converting these data into useful information for project management and decision making. For example, common classifications to systematically describe conservation work. Common indicators for assessing viability of a species. Common metrics for determining the threat status of a forest. Or common standards for mapping the location and determining the effectiveness of conservation actions. This standard framework, when coupled with appropriate intellectual property sharing arrangements, is the key to more coordinated and effective large-scale adaptive management of species and ecosystems. It is also the basis for shared learning that is the foundation of true evidence-based conservation. An inter-disciplinary working group of conservation practitioners, researchers, funders and policy makers

has pilot-tested integrating spatial data with the Open Standards for the Practice of Conservation in the context of large-scale conservation projects around the world. In this symposium, we present the results of this work, drawing on case studies involving Chimpanzees Conservation in Tanzania, Siberian Cranes Across Continental Flyways in East Asia, Conservation Work with Indigenous Peoples in Colombia and Suriname, and Managing an Ecoregion in the Western United States. We then present key principles that have emerged from this work and a plan for developing and rolling-out this framework at scale.

From Pixels to Decisions: Using Remote Sensing Data to Inform Chimpanzee Conservation in Tanzania

Samuel Jantz, Department of Geographical Sciences, University of Maryland; Lilian Pintea, the Jane Goodall Institute-USA; Matthew Hansen, Department of Geographical Sciences, University of Maryland; Shadrack Kamenya, the Jane Goodall Institute-Tanzania; E

Spatial adaptive management of Siberian Crane conservation across East Asia

Arlyne Johnson, Foundations of Success; Erica Cochrane, International Crane Foundation; James Harris, International Crane Foundation

Advanced spatial data collection with native peoples in South American Forests

Brian Hettler, Amazon Conservation Team; Santiago Palacios, Amazon Conservation Team; Felipe Samper, Amazon Conservation Team

Synthesizing, prioritizing, and mapping science and management needs in the NW Basin and Range

Tosha Comendant, Conservation Biology Institute

The Biodiversity Indicators Dashboard: Toward a spatial framework of biodiversity status and trends

Healy Hamilton, NatureServe; Xuemei Han, NatureServe; Bruce Young, NatureServe

Key principles for developing a standard framework to manage spatial conservation information

Nick Salafsky, Foundations of Success; Lilian Pintea, the Jane Goodall Institute



12-MINUTE TALKS

LANDSCAPE AND SPATIAL ECOLOGY 2

Barahona 1
14:30-16:00

Spatial assessment of biodiversity patterns in the Bay of Biscay using underwater video recordings

Maud Mouchet (MNHN); Dorothee Kopp (IFREMER); Laurène Méritellet (IFREMER); Marianne Robert (IFREMER); Michèle Salaün (IFREMER)

Statistical Inference about Functional Landscape Connectivity from Telemetry Data

Jeffrey Royle (USGS Patuxent Wildlife Research Center); Angela Fuller (Cornell University); Chris Sutherland (University of Massachusetts, Amherst)

A mixed approach based on field data and remote sensing for the Afro-Eurasian migratory bird flyways

Takuya Iwamura (Tel Aviv University); Yosef Kiat (Israel Bird Ringing Center (IBRC)); Yotam Lenard (Jerusalem Bird Observatory, the Society for the Protection of Nature); Gidon Perlman (Jerusalem Bird Observatory, the Society for the Protection of Nature); Yaara Aharon-Rotman (Chinese Academy of Science, Beijing)

Fragmentation effects on the relationship between species diversity and functional diversity

Felipe Suarez Castro (University of Queensland); Martine Maron (The University of Queensland); Matthew Mitchell (The University of British Columbia); Jonathan Rhodes (The University of Queensland)

Setting conservation priorities in dynamic migratory networks

Kiran Dhanjal-Adams (Centre for Ecology and Hydrology & Swiss Ornithological Institute)

Which mountains pass? Gaps in protection along elevational gradients worldwide

Paul Elsen (University of California, Berkeley); Adina Merenlender (Hopland Res & Ext Ctr); William Monahan (United States Forest Service)

Earth Observations for Mapping and Monitoring Tropical Forest Connectivity

Patrick Jantz (Northern Arizona University); Scott Goetz (Northern Arizona University); Nadine Laporte (Northern Arizona University)

SYMPOSIUM

MAPPING HUMAN PRESSURES GLOBALLY AND THE ROLE OF PROTECTED AREAS IN MITIGATING BIODIVERSITY THREATS

Barahona 2
14:30-16:00

Enrico Di Minin, University of Helsinki; Jonas Geldmann, University of Cambridge; Michael Harfoot, Unep-wcmc & Microsoft; Lucas Joppa, Microsoft Research; Katharina Schulze, University of Amsterdam; Derek Tittensor, UNEP-WCMC; Neil Burgess, UNEP - World C

It is widely accepted that the main driver of the observed decline in biological diversity is increasing human pressure on Earth's ecosystems. However, the spatial patterns of, and change in, human pressure and their relation to conservation efforts are less well known. Without understanding what is threatening biodiversity we will not be able to take the most appropriate actions to tackle them and reduce the rate of biodiversity loss. This symposium is divided into 3 themes. In the first theme, we will explore "the gold standard" for threat maps and how to move past the current paucity of threat data. The second theme will highlight three novel approaches to understand the distribution of human pressure. The first talk will use methods derived from citizen science, to spatially map pressures to biodiversity based on the threat status of ca 15,000 species in the IUCN red list. The next talk will focus on identification of global hotspots of Red-listed species threatened by one of the most important and most poorly mapped threat: exploitation of biological resources. The third talk will use CITES trade data combined with data border seizures to shed light on the relationship between legal and illegal trade. The last theme will showcase the role of protected areas in mitigating pressure and reduce threats to biodiversity, using data from ca. 2,000 protected areas. The first talk will explore geographical differences in the threats as well as driver associated with highly threatened protected areas. The final talk will be a global analysis of protected area effectiveness in terms of reducing human pressure as well as what factors are contributing



to their success and failures. The discussion will explore the policy relevance of the results presented and what data and tools are needed to improve our understanding of threats to biodiversity.

Using the red list to map threat to biodiversity

Michael Harfoot, UNEP World Conservation Monitoring Centre

Global hotspots of species threatened by unsustainable harvest

Enrico Di Minin, University of Helsinki

Evaluating the relationship between the legal and illegal wildlife trade

Derek Tittensor, UNEP-WCMC; Gregory Britten, University of California Irvine; Neil Burgess, UNEP-WCMC; Mike Harfoot, UNEP-WCMC; Katalin Kecse-Nagy, TRAFFIC International; Kelly Malsch, UNEP-WCMC; Claire McLardy, UNEP-WCMC; Willow Outhwaite, TRAFFIC Intern

Governance and Politics of Reducing the Threats of Deforestation and Forest Degradation through Protected Areas in the Peruvian Amazon

Judith Schleicher, University of Cambridge

Damming fragments species ranges and heightens freshwater fish extinction risk

Juan Carvajal-Quintero, Institute of Ecology A.C. (INECOL); Juliana Delgado, The Nature Conservancy; Stephanie Januchowski-Hartley, Paul Sabatier University; Céline Jézéquel, Muséum National d'Histoire Naturelle; Javier Maldonado-Ocampo, Pontificia Univer

The effectiveness of Protected areas in reducing pressure

Jonas Geldmann, University of Cambridge; Andrew Balmford, University of Cambridge; Neil Burgess, UNEP-World Conservation Monitoring Centre; Lauren Coad, University of Oxford; Andrea Manica, University of Cambridge

SYMPOSIUM

ADAPTIVE MANAGEMENT IN LATIN AMERICAN PROTECTED AREAS CHALLENGES AND OPPORTUNITIES

Barahona 3 (livestreaming and live translation)
14:30-16:00

Eduardo Silva-Rodriguez, Departamento de Ecología y Biodiversidad, Universidad Andres Bello, Chile; Maximiliano Sepulveda, Gerencia de Areas Silvestres Protegidas, Corporacion Nacional Forestal, Chile

Uncertainty and lack of “sufficient” information are more the norm than the exception in conservation practice. However, many pressing problems that affect biodiversity require decisions that cannot wait for sufficient or even minimal information. Adaptive management often is recommended because, through monitoring and evaluation, proximate decisions can be adapted. However, the flexibility of adaptive management often collides with rigid structures that include regulatory instruments, personnel performance metrics, and general resistance to change. In addition, many practical constraints challenge the flexibility required for adaptive management. For example, sharing is critical for learning; however sharing “failures” may be problematic, especially for those who “failed”. Similarly, implementation of monitoring plans is constrained by severe resource limitation and poor understanding of the natural history of conservation targets. Despite these and other limitations, adaptive management is being implemented in protected area systems in Latin America. Here we will present results of adaptive management experiences from governmental, non-governmental and academic perspectives. Each of the case studies includes unique features, but also important commonalities that transcend local scales.

Adaptive management for Protected Areas Systems effectiveness: Challenges and learnings from Peru

Paola Mejia, Sistema Nacional de Áreas Protegidas; Benjamín Lau Chiong, SERNANP; Cindy Vergel Rodríguez, SERNANP

Conservation planning for the Protected Area System and priority ecoregions in Chile

Maximiliano Sepulveda, Corporación Nacional Forestal; Irina Montenegro, WWF Chile

Uruguay's Protected Areas: integrating conservation between scales and public policies

Paola Mejia, Sistema Nacional de Áreas



Protegidas; Lucía Bartesaghi, Sistema Nacional de Áreas Protegidas; Soledad Mantero, MVOTMA - División Sistema Nacional de Áreas Protegidas; Mariana Ríos, Sistema Nacional de Areas Protegidas; Alvaro Soutullo, Centro

The long and windy road to adaptive management of the Lower Rio Negro Mosaic Brazilian Amazon

Guillermo Estupio, Wildlife Conservation Society, Brazil Program; Karl Didier, Wildlife Conservation Society; Marisete Catapan, Independent Consultant; Carlos Durigan, Wildlife Conservation Society, Brazil Program

Theory of change as a framework for sharing learning between protected areas

Guillermo Placci, Foundations of Success; Arlyne Johnson, Foundations of Success; Nick Salafsky, Foundations of Success; Armando Valdes-Velasquez, Foundations of Success/Cayetano Heredia University

Evidence-based conservation planning and the multiple roles of academia

Eduardo Silva-Rodriguez, Departamento de Ecología y Biodiversidad, Universidad Andres Bello, Chile; Lyn Branch, Department of Wildlife Ecology & Conservation, University of Florida

SYMPOSIUM

SHAPING THE FUTURE OF CONSERVATION TECHNOLOGY

Barahona 4
14:30-16:00

José Lahoz-Monfort, University of Melbourne; Matthew McKown, Conservation Metrics, Inc.; Shah Selbe, Conservify

Technology has great potential to revolutionize the way we collect data on species and habitats, and provide new tools to support conservation action. We believe the time has come for conservation to move from being technology consumer to become an innovation leader and to actively seek to design novel technologies and devices to suit our specific needs. The invited talks of this symposium provide an overview of where we stand in terms of conservation technology, and explore the key gaps that need to be addressed to achieve its full potential as a transformative tool.

Shaping the future of Conservation Technology: The current landscape

José Lahoz-Monfort, University of Melbourne

The Internet of Earth Things

Shah Selbe, National Geographic Society

The road to ultra-affordable tagging; why systematically open sourcing key technologies offers value

Alasdair Davies, Zoological Society of London

Applying Artificial Intelligence to Analyze The Growing Mountains of Data From Environmental Sensors

Matthew McKown, Conservation Metrics, Inc.; Ted Schmitt, Vulcan

From the Ground to the Cloud: Big Data Analytics for Conservation

Tanya Birch, Google Earth Outreach

The Future of Conservation Technology

Alex Dehgan, Conservation X Labs, & Duke University

SYMPOSIUM

DEVELOPING THE SCIENTIFIC BASIS THAT ENABLES BUSINESSES TO SUPPORT BIODIVERSITY CONSERVATION

Sala 301

14:30-16:00

Joseph Bull, University of Copenhagen – KU; Prue Addison, University of Oxford

The fundamental goal of conservation science is to provide the technical understanding and tools that enable humanity to conserve biodiversity. End-users of conservation science include international policymakers, governments, and NGOs. More recently, an important end-user of conservation science has emerged – businesses, an increasing number of which seek to take an active role in biodiversity conservation. Businesses face serious barriers that prevent them from supporting biodiversity conservation. These barriers are scientific, as much as social and economic, including: establishing metrics for objectively evaluating and

reporting on biodiversity performance; methods for comparing performance across multiple scales; and, managing biodiversity in the face of uncertainty. In fact, efforts to conserve biodiversity as part of business operations expose gaps in the scientific basis underlying conservation science more generally. In this symposium, we will discuss 'business and biodiversity' through the lens of topics including 'no net loss' conservation mechanisms (e.g. biodiversity offsetting), natural capital accounting, and factoring industry into landscape conservation planning. The symposium will showcase recent developments in the 'business and biodiversity' research field, identify critical research gaps, and will provide an opportunity for delegates to join discussions around engaging businesses more meaningfully in applied conservation.

Engaging with business to revolutionize biodiversity conservation

Prue Addison, University of Oxford; Joseph Bull, University of Copenhagen - KU; E.J. Milner-Gulland, University of Oxford

What biodiversity information does business need?

Leon Bennun, The Biodiversity Consultancy; Jenny Arias Escandon, The Biodiversity Consultancy; Eugenie Regan, The Biodiversity Consultancy

Developing robust indicators for private sector conservation and natural capital accounting

Fabien Quétier, Biotope; Helen Ding, World Resources Institute; Joël Houdet, Integrated Sustainability Services

A quantitative worldwide assessment of biodiversity offsetting

Joseph Bull, University of Copenhagen - KU; Sam Lloyd, University of Oxford; Niels Strange, University of Copenhagen

Resolving controversies in compensatory conservation

Martine Maron, The University of Queensland

Panel discussion

12-MINUTE TALKS

BIODIVERSITY INVENTORY, MONITORING AND MAPPING

Sala 302
14:30-16:00

Conservation and sustainability status of *Ophiocordyceps sinensis* in the Himalaya, India

Pramod Kumar Yadav (Centre for Integration of Conservation and Developmental Accountability)

Wildlife Occupancy and Intensity of Use in Response to Human Access to Public Open Space

Susan Townsend (Wildlife Ecology & Consulting)

Soundscape and acoustic analyses for biodiversity monitoring in Protected Areas

Ivan Campos (ICMBio - Instituto Chico Mendes de Conservação da Biodiversidade); Anne Gaskett (University of Auckland); William Lee (Landcare Research); Louis Ranjard (Australian National University)

Evidence for interrelations between wildlife abundance and human development over the last 20 years

Judith Ament (Institute of Zoology); Chris Carbone (Institute of Zoology); Ben Collen (University College London); Robin Freeman (Institute of Zoology)

Two decades evaluating risk of extinction: Venezuela in the Latin American context

Ariany Garcia-Rawlins (Provita); Jesus Morales-Campos (Provita); Jon Paul Rodriguez (IUCN SSC, Provita, Instituto Venezolano de Investigaciones Científicas)

Assessing the multi-gear and multi-species artisanal fisheries of the Colombian Pacific

Pilar Herron (Ecomares Foundation); Juan Manuel Diaz-Merlano (Fundacion MarViva); Giovanni Melo (Fundacion MarViva); Matthias Wolff (Leibniz Center for Tropical Marine Research)

Biology and management of *Scarus trispinosus* the endangered Southwestern Atlantic reef fish

Matheus Freitas, PPGEA-UFPR - Rede Abrolhos; Vinicius Abilhoa, Capao da Imbuia Natural History

Museum; Jonas Leite, Rede Abrolhos;
Rodrigo Moura, UFRJ/Rede Abrolhos; Marilia
Previero, USP

**Diversity, Ecology and Conservation of
Bird Communities of Polylepis Woodlands
in the Andes of Peru**

Cristian Sevillano (Cornell University)

SYMPOSIUM

**CONSERVATION IN AN
URBANIZING WORLD: HOW IS
THE SCIENCE AND PRACTICE OF
CONSERVATION CHANGING**

Sala 303

14:30-16:00

Marit Wilkerson, USAID

Urbanization has significant effects on global biodiversity through increased demands for natural resources, landscape modifications, and habitat alterations. However, the science and practice of urban conservation is not limited to conserving species and habitats, but also encompasses socio-economic issues, human values, and environmental aesthetics. As urbanization and its consequences for biodiversity magnify, understanding the nexus between ecology, social science, and urban planning is more important than ever. This symposium will highlight some of the world's most state-of-the-art ecological, social, and policy-relevant research in the field of urban ecology. Presentations will cover applied topics such as the functionality of urban green spaces, multi-city approaches to urban wildlife conservation, and exploring the relationship between urban green space and human well-being. This symposium is intended to complement the symposium "Conservation in an Urbanizing World: How is urbanization changing the science and practice of conservation?" Together these symposiums will facilitate an informative conversation about urban conservation such that the audience can feel better equipped to continue the conversation in their professional and personal lives. Therefore, this symposium will conclude with an interactive panel-audience discussion

about the next frontiers in conserving biological diversity in an urbanizing world.

**Defining Urban: Achieving a Common
Understanding for a Variable Concept**

Megan Draheim, Virginia Polytechnical University;
Lauren Bailey, Society for Conservation Biology

**The Urban Wildlife Information Network: An
Integrated Approach to Urban Wildlife Research**

Seth Magle, Lincoln Park Zoo; Mason Fidino, Urban
Wildlife Institute; Liza Lehrer, Lincoln Park Zoo

**How do we plan for and implement inclusive urban
conservation?**

Marit Wilkerson, USAID

People, management, and biodiversity in cities

Charles Nilon, University of Missouri

**Where to from here? Discussion led by Urban
Conservation WG & guest speakers**

12-MINUTE TALKS

MANAGING INVASIVE SPECIES

Sala 304

14:30-16:00

**Cooperation, Trustworthiness and Motivation: A
Model Test in the Invasive Species Context**

Joseph Hamm (Michigan State University); Dwayne
Etter (Michigan Department of Natural Resources);
Meredith Gore (Michigan State University); Adam
Zwickle (Michigan State University)

**The impact of reforestation in the conservation of
Andean Forest: The case of Polylepis in Ecuador**

Maria Segovia (Universidad de las Fuerzas Armadas
ESPE)

**Flawed Evidence on the Metabolic Theory of
Ecology is Undermining Management of Lionfish
Invasion**

Diego Valderrama (University of los Andes)

**Saving freshwater crayfishes: Extinction drivers
identification and ecosystem services assessment**

Raoul Manenti (Università degli Studi di Milano,

Dipartimento di Bioscienze); Claudia Canedoli
(University of Milano-Bicocca); Emilio Padoa
Schioppa (University of Milano-Bicocca)

**Taxonomic Impediment: A Handicap in Invasive
Species Management**

Joel Chavez (Far Eastern University); Esperanza
Arcilla (Far Eastern University); Jose Santos
Carandang VI (De La Salle University)

**An impact based prioritization of feral pig
management**

Jeremy Ringma (The University of Hawaii); Melissa
Price (University of Hawaii)

**Planning for Recovery: Opens Standards and the
Future for the San Clemente Loggerhead Shrike**

Andrew Bridges (Institute for Wildlife Studies);
Melissa Booker (US Navy); Nicole Desnoyers
(Institute for Wildlife Studies); Susan Farabaugh (San
Diego Zoo Global); David Garcelon (Institute for
Wildlife Studies); Kim O'Connor (US Navy); Quinn
Shurtliff







TUESDAY SESSIONS



MONDAY 24 JULY 2017

M



TUESDAY 25 JULY 2017

Tu



WEDNESDAY 26 JULY 2017

W



THURSDAY 27 JULY 2017

Th





TUESDAY 25 JULY 2017

SCHEDULE AT A GLANCE

LOBBY LEVEL						LEVEL 2B								LEVEL 3			
Registration	Comercial Area	BO	Childcare	Press	Networking	BO	Office	BO	Plenary	BO	BO	BO	BO	BO	BO	BO	BO
Portico Registro	Claustro de las Animas	Sala 103	Sala 102	Sala 101	Hall de exposiciones	Secretaría General	Sala VIP II	Arsenal	Gran Salon Barahona	Barahona 1	Barahona 2	Barahona 3 (livestreaming and translation room)	Barahona 4	Sala 301	Sala 302	Sala 303	Sala 304
Capacity in Auditorium		70	20	30		130		130	1500	250	283	386	360	70	100	100	100
7:30	CCC Opening																
8:00																	
8:30																	
9:00	Plenary 2: Robin Chazdon																
9:30	Coffee																
10:00																	
10:30	Contributed talks 14: Ecology and behaviour																
11:00	Symposium 103: The role of Natural History Museums in sustaining biological and cultural diversity																
	Symposium 123: Seasonally Dry Forest conservation in the Neotropics																
	Speed talks 8 Human and wildlife interactions																
	Speed talks 6 Conservation in freshwater environments																
	Speed talks 7 Governance, policies and incentives																
	Speed talks 5 Consequences of habitat alteration and fragmentation																
	Symposium 94: Monarchs Pangolins and Vaquita Using U.S. Laws to Leverage Global Conservation Gains																
	Symposium 150: Harmonizing conservation local realities inter-disciplinary approaches to just sustainability																
	Symposium 149: The impact of Earths changing human footprint on biodiversity and humanity																
	Symposium 212: Integrating economics into biodiversity conservation practice																
11:30	Contributed talks 18: Conservation in a changing climate 1																
12:00	Contributed talks 13: Urban and periurban issues and opportunities																
12:30	Contributed talks 15: Policy and practice																
	Contributed talks 16: Indigenous knowledge and conservation 1																
	Contributed talks 17: Conservation conflicts 2																
	Symposium 141: Tackling over-collection of wild plants - is horticulture a conservation problem or solution?																
	Contributed talks 19: Ecological restoration and reconstruction 1																
	Symposium 157: Coral Reefs Conservation Effectiveness																
	Contributed talks 20: Genetics, evolution and biogeography 1																
13:00	Lunch																
	Conservation genetics WG																
13:30	W 242 The Art of Learning Integrating Dance in Science Education																
14:00	W 42 A manifesto for predictive conservation																
	W 40 Bridging the gap between science and practice for conservation in the Spanish speaking world																
	W 31 New frontiers in productive land management for conservation in tropical landscapes																
	W 58 Adoption of EbA in the face of climate change: Improve livelihoods around Worobong Forest Reserve																
	W 79 Millennial Conservation: How Today's Youth Will Shape Tomorrow's Conservation																
	Diversity committee forum 2: Religion & Conservation: A Place for Collaboration																
	W71 Making ecological methods work for threatened and rare species																
	W 229 Improving Cross-disciplinary Communication: An Introduction to the Toolbox Dialogue Method																
	W 100 Defining a Conservation Planning Toolkit																
	W 197 Telling conservation stories through art-science collaborations																
14:30	Symposium 116: The urban challenge: Latin American cities as hotspots of opportunities for biodiversity conservation																
15:00	Knowledge Café 2: Engaging conservation opportunities																
15:30	Symposium 78: Learning from across the social sciences to inform evidence-based demand reduction strategies																
	Symposium 75: Linking conservation science to decisions in the real world																
	Symposium 118: Rural communities and Indigenous Peoples Contributions to the Conservation of the Amazon Basin																
	Symposium 161: Human-carnivore conflict in regions undergoing land-use change																
	Symposium 147: Mind the gap an open-science network for integrated ecosystem research in Colombia																
	Contributed talks 22: Ecological restoration and reconstruction 2																
	Symposium 130: New conservation strategies to sustain coral reefs under climate change																
16:00	Coffee + Posters Session 2: Problems and Solutions																
16:30																	
17:00	Symposium 144: Conservation in an Urbanizing World: Conservation science and application in urban systems																
17:30	Knowledge Café 3: Technology, networks and the city																
18:00	Contributed talks 26: Wildlife trade																
	Symposium 121: Land acquisitions for conservation reconciling plans with empirical reality																
	Contributed talks 27: Conservation through partnerships																
	Contributed talks 28: Conservation conflicts 3																
	Contributed talks 29: Conservation in a changing climate 2																
	Contributed talks 30: Deserts and semiarid landscapes																
	Contributed talks 31: Grasslands and Savannas																
	Contributed talks 32: Risk assessment and uncertainty																
18:30	Oceania Section Meeting																
19:00	SCB Africa Section Meeting																
	LACA Section meeting																
	NA Section meeting																
	Asia Section Meeting																
	Marine Section meeting																
	Europe Section Meeting																
19:30	END OF THE DAY																
	Contributed talks 34: Alien and invasive species - NOTE ONE TALK LONGER																
	Contributed talks 48: Environmental law, governance and policy																
	Contributed talks 23: Genetics, evolution and biogeography 2																
	Contributed talks 25: Social science for conservation 2																



TUESDAY SESSIONS

12-MINUTE TALKS

ECOLOGY AND BEHAVIOUR 1

Sala 103
10:00-11:30

Oil palm plantations affect movement behavior of a key mixed-flocking bird in Amazonia Brazil
Jessie Knowlton, Michigan Technological University; Fernanda Barro, Universidade Federal do Pará; Nia Becker, Michigan Technological University; Maíra Cardoso, Universidade Federal do Pará; Pablo Cerqueira, Universidade Federal do Pará; Marcos Dantas Santos, Universidade Federal do Pará; Cynthia Fiser, Michigan Technological University; David Flaspohler, School Forest Resources & Environmental Science; Samuel Oliveira, Independant; Colin Phifer, Michigan Technological University

Hot hungry and tired individual-based models of animal dispersal using energetics and climates
Matt Malishev, University of Melbourne

Influence of forest structure on Sumatran orangutan nest ecology in recovering lowland forests
John Abernethy, Liverpool John Moores University

From individual behavior to colonization of new habitats butterflies in forest landscapes
Tiit Teder, Department of Zoology, University of Tartu, Estonia; Mari-Liis Viljur, Department of Zoology, University of Tartu, Estonia

The role of shade coffee for the conservation of resident birds

Lina Sanchez Clavijo, Colombia; Nicholas Bayly, SELVA; Pedro Quintana-Ascencio, University of Central Florida

A century of ecological change reflected in the stable isotopes of a migratory aerial insectivore

Philina English, Centre for Wildlife Ecology, Simon Fraser University; Jasmine Crumsey, Stanford University; David Green, Simon Fraser University; Joseph Nocera, University of New Brunswick; Vanya Rohwer, Cornell University

Limitations to High-Andean Polylepis Forest Expansion and Migration in Huascarán Biosphere Reserve

Laura Morales, University of California Davis

SYMPOSIUM

THE ROLE OF NATURAL HISTORY
MUSEUMS IN SUSTAINING
BIOLOGICAL AND CULTURAL
DIVERSITY

(Diversity, Equity & Inclusion Journey)

Secretaría General
10:00-11:30
Nora Bynum, Field Museum

What role should natural history museums play in sustaining the world's biological and cultural diversity?



Conservation efforts are structured in various ways in these collections-based institutions, which often have a distinct public profile, serve as trusted conveners in science and education, and have breadth and depth in intellectual and physical resources. This symposium addresses the spectrum of conservation strategies that museums undertake, such as deploying knowledge from collections in conservation research; using biological and social inventories to direct conservation action; developing citizen-science programs that engage communities from local to international scales; and building capacity for diverse target audiences. We also will discuss the role of fundamental biodiversity research and how it complements and differs from conservation action; how we measure the success of biological conservation efforts and cultural engagement; how we evaluate quality of life; and how we look to a future with a global community of museums working on conservation, removing barriers to collaboration among these institutions.

Conservation strategies at Natural History Museums: An overview

Felicity Arengo, Center for Biodiversity and Conservation, AMNH; George Amato, American Museum of Natural History; Mary Blair, Center for Biodiversity and Conservation, AMNH; Christopher Filardi, American Museum of Natural History; Ana Porzecanski, Center for Biodiversity and Conservation, AMNH; Eleanor Sterling, Center for Biodiversity and Conservation, AMNH

The immense value of scientific collections in conservation research

Gary Krupnick, Smithsonian Institute; W John Kress, Smithsonian Institute

Twenty years of direct work on conservation and community wellbeing in South America

Diana Alvira, Field Museum; William Alverson, Field Museum; Nora Bynum, Field Museum; Alvaro del Campo, Field Museum; Robin Foster, Field Museum; Nancy Hensold, Field Museum; Jon Markel, Field Museum; Debra Moskovits, Field Museum; Mario Pariona, Independent; Juliana Philipp, Field Museum; Nigel Pitman, Field Museum; Ashwin Ravikumar, Field Museum; Douglas Stotz, Field Museum; Corine Vriesendorp, Field Museum; Tatziana Wachter, Field Museum; Alaka Wali, Field Museum

Contrasting fundamental research and citizen science for conservation

Shannon Bennett, California Academy of Sciences; Rebecca Johnson, California Academy of Sciences; Scott Loarie, California Academy of Sciences; Meg Lowman, California Academy of Sciences

Capacity development, conservation and museums

Ana Porzecanski, Center for Biodiversity and Conservation, AMNH; Felicity Arengo, Center for Biodiversity and Conservation, AMNH; Mary Blair, Center for Biodiversity and Conservation, AMNH; Eleanor Sterling, Center for Biodiversity and Conservation, AMNH;

Museums looking to the future: Removing barriers to global collaboration for conservation

Nora Bynum, Field Museum; Diana Alvira, Field Museum; Debra Moskovits, Field Museum; Nigel Pitman, Field Museum; Corine Vriesendorp, Field Museum

SYMPOSIUM

SEASONALLY DRY FOREST CONSERVATION IN THE NEOTROPICS

Arsenal

10:00-11:30

Santiago Madriñán, Jardín Botánico de Cartagena

Seasonally Dry Tropical Forests are amongst the most endangered ecosystems on Earth. It is estimated that ca. 10% of the original extent of SDTF in the Neotropics remains. In the Colombian Caribbean region, SDTF are particularly endangered through expansion of urban areas and a long history of occupation and destructive land use practices, such as conversion to pastures for cattle ranching and urbanisation. In this symposium we will explore conservation strategies of SDTF through five presentations by leading personalities in the field including: 1) an overview of current state of SDTF in the Neotropics (biodiversity, land use, conservation, threats); 2) climate history and future climate change scenarios in SDTF; 3) landscape analyses of extant SDTF; 4) preservation and ecological restoration strategies of SDTF conservation, and 5) economics of SDTF conservation and sustainability through ecotourism, silvopastoral models, community involvement and

REDD+ strategies. At the end of the oral presentations there will be a 15 min roundtable inviting the presenters and participants to comment of drivers of SDTF change and solutions to leading towards its conservation.

Tree diversity patterns and regional conservation priorities in Central American-northern South American Dry Forests

Karina Banda R, Royal Botanic Garden Edinburgh/
Fundacion ESC

The environment vs. Tropical Dry Forests: Functional responses of six tree species to drought

Beatriz Salgado-Negret, Universidad del Norte; Carolina Alcazar, Bioversity International; Alejandra Chaparro, Universidad Distrital Francisco José de Caldas; Fabian Garzón, Universidad Distrital Francisco José de Caldas; Jhon Nieto, Instituto Humboldt; Nancy Pulido, Universidad Distrital Francisco José de Caldas; Viviana Salinas, Universidad Distrital Francisco José de Caldas; Elkin Tenorio, Instituto Humboldt; Evert Thomas, Bioversity International

Will Tropical Dry Forests be vulnerable or resistant to changes in rainfall?

Jennifer Powers, University of Minnesota

Plant diversity, biogeography and conservation of Neotropical Seasonally Dry Forests

Toby Pennington, Royal Botanic Garden Edinburgh; Matt Lavin, Montana State University

Seasonally Dry Forest conservation in the Colombian Caribbean

Santiago Madriñán, Jardín Botánico de Cartagena

Panel discussion

5-MINUTE TALKS

HUMAN AND WILDLIFE INTERACTIONS

Barahona 1
10:30-11:30

Assessing knowledge and attitudes towards wildlife in a biodiversity hotspot

Daniela Poo Muñoz (Universidad Santo Tomás); Francisca Astorga (Fundación Pulso Ambiental); Gonzalo Medina Vogel (Universidad Andres Bello); John Organ (U.S.G.S. Cooperative Fish and Wildlife Research Units)

Multicriteria prioritization to spatially define research and management actions for carnivores

Diego Zárrate-Charry (ProCAT Colombia; OSU); Matthew Betts (Oregon State University); José González-Maya (ProCAT Colombia; Sierra to Sea Costa Rica); Aimme Massey (Oregon State University)

Living with giants: Human-elephant conflict in Myanmar

Christie Sampson (Clemson University); Peter Leimgruber (Smithsonian Conservation Biology Institute); David Tonkyn (Clemson University)

An interdisciplinary assessment of the drivers determining tolerance of large carnivores in Romania

Peter Damerell (The University of Cambridge)

Citizens bats: Uncovering the distribution, human-bat interactions and perceptions about fruit bats

Kofi Amponsah-Mensah (University of Ghana); Andrew Cunningham (Institute of Zoology, Zoological Society of London); Yaa Ntiamoa-Baidu (University of Ghana); James Wood (University of Cambridge)

Zoonosis in domestic dogs as a threat for wild animals in Brazil

Anaiá Sevá (University of São Paulo); Ana Pérola Brandão (University of São Paulo); Fernando Ferreira (University of São Paulo); Silvia Godoy (Instituto Chico Mendes); Jonas Moraes Filho (University of São Paulo); Amanda Sousa (University of São Paulo); Camila Vieira (University of São Paulo)



Predicting Movements of Vertebrates with Road and Visual Surveys in a Human-Dominated Landscape

Karen Root (Bowling Green State University);
Lauren Jonaitis (Bowling Green State University)

Art, magic and religion in favour of Amazon conservation

Marco Carpio (CORBIDI)

Effects of human disturbance on occurrence patterns and behavior of ungulates in eastern Ecuador

Julia Salvador (Wildlife Conservation Society)

Unmanned Aerial Vehicles UAV for surveying river dolphins in the Amazon

Marcelo Costa (WWF Brasil); Andre Coelho (IDSM); Daiane da Rosa (IDSM); Miriam Marmontel (IDSM)

Perception use and local conservation of the *Crocodylus intermedius* in Arauca rivers complex

Brigitte Preciado Salas, Asociación de Biólogos Ambientales, Universidad Javeriana; Sebastian Restrepo (Universidad Javeriana)

Aquatic biodiversity profiling and monitoring in Nepal using eDNA technology

Karolyn Upham, USAID; Dibesh Karmacharya, Center for Molecular Dynamics Nepal

Food web dynamics on branching river networks

Kurt Anderson (University of California, Riverside); Sean Hayes (University of California, Riverside)

5-MINUTE TALKS

CONSERVATION IN FRESHWATER ENVIRONMENTS

Barahona 2
10:30-11:30

Legislative and policy barriers to ecological restoration of an indigeneous fresh water site

Toni Love (Victoria University of Wellington)

Testing the effects of invasion through coexistence theory: The case of *Azolla* spp. in New Zealand

Carolina Ocampo Ariza (Georg-August Universität Göttingen); Jennifer Bufford (Bioprotection Research Center New Zealand); William Godsoe (Bioprotection Research Center New Zealand; Lincoln University); Philip Hulme (Lincoln University)

Conservation of high altitude Mediterranean temporary ponds in Greece

Pinelopi Delipetrou (National and Kapodistrian University of Athens); Ilias Dimitriadis (National and Kapodistrian University of Athens); Kyriacos Georghiou (National and Kapodistrian University of Athens); Katerina Koutsovoulou (National and Kapodistrian University of Athens); Evelina Skoutri (National and Kapodistrian University of Athens); Eirini Vallianatou (J. & A.N. Diomedes Botanical Garden)

Behavioral analysis of tiger salamander (*Ambystoma californiense*) migration through road tunnels

Tracy Bain (International Fund for Animal Welfare)

5-MINUTE TALKS

GOVERNANCE, POLICIES AND INCENTIVES

Barahona 3 (livestreaming and live translation)
10:30-11:30

Assessing the effects of conservation incentives on primates across forest fragments in Costa Rica

Michael Wasserman (Indiana University); Kenneth Alfaro (Organization for Tropical Studies); Peter Beck (St. Edward's University); Rodolfo Flores (Organization for Tropical Studies); Eric Johnson (St. Edward's University); Teresa Johnson (St. Edward's University); Abigail Kropf (St. Edward's University); Sarah Mattechek (St. Edward's University); Tessa Steiniche (Indiana University); Marta Venier (Indiana University)

Coordinating U.S. Government Efforts to Combat Wildlife Crime in Nepal

Karl Wurster (USAID); Kevin Burke (U.S. Department of Justice); Joseph Evans (U.S. Army); Ari Nathan (U.S. Department of State); Netra Sharma Sapkota (USAID); Karolyn Upham (USAID)

Understanding and quantifying the potential for land sparing in Brazil

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Ben Phalan (International Institute for Sustainability); Andrew Balmford (University of Cambridge); Ellen da Silva Fonte (International Institute for Sustainability); Graziela Dotta (Pontificia Universidade Católica do Rio Grande do Sul); Joice Ferreira (Embrapa); Agnieszka Latawiec (International Institute for Sustainability); Juliana Silveira dos Santos (International Institute for Sustainability); Bernardo Strassburg (International Institute for Sustainability)

Features of illegal logging in the forest of Taiwan
Shiang-Fan Chen (Center for General Education, National Taipei University); Lanying Huang (Graduate School of Criminology, National Taipei University)

What Saved Costa Rica's Forests? An analysis of reforestation drivers 1950-2015
Rosemary Hitchens, Miami University (OH); April MH Blakeslee, Biology Department, East Carolina University

Trends in Illegal Wildlife Trade: Analyzing Seizure Data in the Pacific Northwest
Rosemary Hitchens (Miami University (OH))

Mauritia flexuosa fruit trade in Peru: Drivers for extraction and conservation potential
Chelsie Romulo (Dept. of Environmental Science and Policy, George Mason University); Francisco Dallmeier (Center for Conservation Education and Sustainability, Smithsonian Insitute); Bryan Endress (Department of Animal & Rangeland Sciences Oregon State University)

Identifying deforestation drivers amidst political and behavioral uncertainty in Queensland
Blake Alexander Simmons (University of Queensland); Brett Bryan (Deakin University); Elizabeth Law (The University of Queensland); Raymundo Marcos-Martinez (CSIRO); Clive McAlpine (The University of Queensland); Kerrie Wilson (The University of Queensland)

Increasing species-specific conservation for threatened trees in their natural habitat
Victoria Price (Fauna & Flora International); David Gill (Fauna &

No Treaties: Biological Evidence in Support of Assisted Colonization of Polar Bears to Antarctica
Madison Hall (Michigan State University)

5-MINUTE TALKS

CONSEQUENCES OF HABITAT ALTERATION AND FRAGMENTATION

Barahona 4
10:30-11:30

Landscape-level effects of deforestation on large and meso-mammal occurrence in the Paraguayan Chaco

Jeffrey Thompson, CONACYT - Guyra Paraguay; Rodrigo Ayala, Universidad de Buenos Aires; Evelyn Britez, Guyra Paraguay; Hugo Cabral, Guyra Paraguay; Juan Campos Krauer, Centro Chaqueño para la Conservación e Investigación; Jose Luis Cartes, CONACYT; Viviana Rojas Bonzi, Guyra Paraguay; Marianela Velilla, CONACYT - Guyra Paraguay; Alberto Yanosky, Guyra Paraguay

The Effects of Tropical Forest Fragmentation on Hummingbird Mediated Pollen Flow

Felipe Torres, University of Toronto; Adam Hadley, University of Toronto - Oregon State University; Helene Wagner, University of Toronto; Julie Wang, University of Toronto

Silvery brown tamarin habitat connectivity in heterogeneous human-modified habitats in Colombia

Lina M Valencia, University of Texas, Austin; Anthony Di Fiore, University of Texas, Austin

Habitat occupancy of a critical weight range mammal in an agricultural landscape

Riana Gardiner, University of Tasmania

Beta diversity of arthropods across the complementary zones of the Kogelberg Biosphere Reserve

Julia van Schalkwyk, Stellenbosch University

Multi-scale implementation of green infrastructure to mitigate body size shifts in urban communities

Thomas Merckx, Université catholique de Louvain; Hans Van Dyck, Université catholique de Louvain

Effects of habitat area and configuration on mammals in fragmented landscapes of the Argentine Chaco

BIBIANA Gómez-Valencia, Departamento de Ecología, Genética y Evolución, Universidad de Buenos Aires; Jorge Adámoli, Departamento de Ecología, Genética y Evolución, Universidad de Buenos Aires; Milton Cezar Ribeiro, Department of Ecology, Universidade Estadual Paulista (UNESP), São Paulo-Brazil; Jeffrey Thompson, Consejo Nacional de Ciencia y Tecnología de Paraguay (CONACYT) & Guyra Paraguay

Citizen science reveals effects on bird communities by deforestation in northwestern Amazonia

Orlando Acevedo-Charry, GOUN; Brayan Coral-Jaramillo, Putumayo Birding; Paul Furumo, University of Puerto Rico; Ottavio Janni, Independent; Flor Angela Peña, Grupo de Observadores de Aves de Leguízamo; Diego Rocha Lopez, Grupo de Observadores de Aves de Leguízamo

treaties are being used to protect the monarch butterfly across its migration, and (4) how migratory birds are protected on their wintering grounds and during their migration through U.S. funded conservation programs. Finally, this symposium will review the first six months of the Trump administration and what early policy changes likely mean for biodiversity conservation both in the United States and abroad.

Introduction to the Symposium: Using U.S. Laws to Leverage Global Conservation Gains

Brett Hartl, Center for Biological Diversity

Curbing Harmful International Wildlife Trade

Collette Adkins, Center for Biological Diversity

Does the U.S. Endangered Species Act Benefit Neotropical Migrants?

Loyal Mehrhoff, Center for Biological Diversity

Saving the Monarch Butterfly Requires International Cooperation In a Time of Hostility Under Trump

Tierra Curry, Center for Biological Diversity

Agriculture and Biodiversity in the 21st Century

Amy Atwood, Center for Biological Diversity

The State of the U.S. Endangered Species Act Under A Trump Administration

Noah Greenwald, Center for Biological Diversity

SYMPOSIUM

HARMONIZING CONSERVATION & LOCAL REALITIES: INTER-DISCIPLINARY APPROACHES TO JUST SUSTAINABILITY (*Diversity, Equity and Inclusion Journey*)

Sala 302
10:00-11:30

Paulami Banerjee, The University of Texas at El Paso (UTEP); Michael Liles, Texas A&M University; Tarla Peterson, University of Texas El Paso; Kathryn Wedemeyer-Strombel, University of Texas El Paso; Eastern Pacific Hawksbill Initiative

One of Earth's most profound sustainability and social justice challenges is including the full spectrum of

SYMPOSIUM

MONARCHS PANGOLINS AND VAQUITA: USING U.S. LAWS TO LEVERAGE GLOBAL CONSERVATION GAINS

Sala 301

10:00-11:30

Brett Hartl, Center for Biological Diversity

The United States' domestic environmental laws provide many tools to promote conservation objectives both within and beyond its borders. For example, in 2016 the Obama administration finalized a set of regulations that will likely prevent the deaths of 650,000 marine mammals worldwide each year by requiring that every nation which seeks to import seafood into the United States meet with the strict, protective standards of the Marine Mammal Protection Act. This symposium will examine several case studies where U.S. environmental laws and policies have been leveraged in creative ways to address some of the most urgent issues in conservation today. This symposium will, among other things, discuss (1) how the Endangered Species Act is being used to address international wildlife trafficking of species including pangolins and African elephants, (2) how fisheries and trade policies are being employed to protect the critically-endangered Vaquita by addressing the illegal Totoaba swim-bladder trade, (3) how a combination of U.S. laws and international



society in decision-making and actions regarding the use of natural resources. Global biodiversity conservation priorities often focus on the biological needs of species and ecosystems without concomitant attention to the needs and concerns of local human residents. The misalignment of conservation strategies and the priorities of the human population can result in exclusion of local human residents from conservation planning. Excluding locals can escalate latent conflict and hamper desired outcomes, particularly when local residents wield power to influence the success or failure of conservation initiatives. Achieving just sustainability requires inter-disciplinary strategies that harmonize international conservation priorities with diverse realities of local communities. This requires moving beyond simply listening to local voices to actively incorporating local realities into conservation. This symposium explores how conservation strategies that promote dialogue between conservationists and primary resource users can encourage both to recognize their interdependence and create an environment of mutual respect and appreciation. The symposium's six case studies examine environmental conflicts in aquatic and terrestrial ecosystems at multiple scales, including: Community-based forest management: A case study of Joint Forest Management in India; Biting the hand that feeds you: priorities for conservation and human wellbeing in C. America; Social marketing of community managed marine protected zones in Indonesia; Action Research for co-management of inhabited protected areas in Mozambique; Challenging old models of carnivore conservation in Sweden and the United States; Fishers' Ecological Knowledge for sea turtle conservation in C. America. These approaches open spaces previously limited to resource managers, and reintegrate local communities to conservation.

Challenging old models of carnivore conservation in Sweden and the United States

Tarla Peterson, University of Texas El Paso

Social marketing of community managed marine protected zones in Indonesia

Stacey Sowards, University of Texas at El Paso

Biting the hand that feeds you priorities for conservation and human wellbeing in Central America

Michael J. Liles, University of Texas at El Paso;
Stacey Sowards, University of Texas at El Paso;
Markus Peterson, University of Texas at El Paso

Action Research for co-management of inhabited protected areas in Mozambique

Nicia Giva, Eduardo Mondlane University

Community-based forest management: A case study of Joint Forest Management in Sikkim, India

Paulami Banerjee, The University of Texas at El Paso (UTEP); Tarla Peterson, The University of Texas El Paso (UTEP)

Fishers' Ecological Knowledge for endangered sea turtle conservation in Central America

Kathryn Wedemeyer-Strombel, University of Texas at El Paso, Eastern Pacific Hawksbill Initiative; Michael Liles, University of Texas at El Paso; Markus Peterson, Tamu; Tarla Peterson, University of Texas El Paso

SYMPOSIUM

**THE IMPACT OF EARTH'S
CHANGING HUMAN FOOTPRINT
ON BIODIVERSITY AND
HUMANITY**

Sala 303

10:00-11:30

Kendall Jones, University of Queensland

Humanity and nature forms a coupled system and anthropogenic pressures on the environment have profound impacts on biodiversity, social equality and economic prosperity. Understanding how and where changes in human pressures have occurred is vital not just for biodiversity conservation but also our understanding of essential ecosystem service provisioning. Until recently, global assessments of human pressure change have been limited in that they have focused solely on single measures of human pressure, such as forest loss. But recent advances in cumulative impact mapping have profoundly changed this, as they simultaneously capture the impacts of numerous human activities across space and time, and demonstrate huge recent increases in human pressures globally. This symposium will utilise these advances to present novel methods for measuring the impacts of human pressure on biodiversity and ecosystem services and explore the possibility of reconciling human development and biodiversity goals. We will explore the relationship between human pressure change and socio-economic change over the past two decades,



asking the question: Can economic growth and human development be decoupled from biodiversity loss? Second, we will highlight advances in mapping human impacts to biodiversity. Finally, we will investigate how human pressures are affecting conservation efforts globally, assessing the effectiveness of protected areas for mitigating human pressures, and highlighting areas where human pressures compromise abilities to meet international environment targets.

Recent catastrophic declines in wilderness and what this means for Half Earth

James Watson, Wildlife Conservation Society

Wilderness conservation and the World Heritage Convention

James Allan, University of Queensland

Red Listing human behaviors that impact global biodiversity

Matthew Selinske, RMIT University; Sarah Bekessy/ RMIT University; Fiona Fidler, University of Melbourne; Georgia Garrard, RMIT University; Ascelin Gordon, Victoria; Manfred Lenzen, University of Sydney; Isaac Peterson, RMIT

One third of the global protected area estate under intense human pressure

Kendall Jones, University of Queensland

Global restoration priorities for achieving protected area targets

Bonnie Mappin, University of Queensland

The human influence on fire dependent ecosystems, where to from here?

Brooke Williams, The University of Queensland

biodiversity loss, e.g. biodiversity offsets and payment schemes. However, careful planning in the design and implementation of incentives is required to ensure that economic benefits reach conservation targets, making their implementation particularly challenging. Furthermore, studying and understanding economic incentives frequently requires a departure from the more traditional conservation biology approaches that have historically dominated our frameworks for investigating, understanding, and managing conservation problems. The proposed symposium brings together multiple study cases, mainly from Latin America, where economic benefits have been integrated into biodiversity conservation strategies. It will provide a unique forum for cross-disciplinary learning among conservation practitioners, policy makers, and researchers that apply a diverse set of tools to merge biodiversity conservation and economics.

Co-benefit cost-savings through optimized source water protection activities: The case of Colombia

Jorge Leon, The Nature Conservancy; Adrian Vogl, Natural Capital Project; Carolina Aguirre, The Nature Conservancy; Alejandro Calvache, The Nature Conservancy; Mauricio Echeverry, The Nature Conservancy; Aparna Sridhar, The Nature Conservancy

A New Methodology for Freshwater Compensation in Colombia

Tomas Walschburger, The Nature Conservancy; Juliana Delgado, The Nature Conservancy; Felipe Osorio, Independent; Carlos Rogéliz, The Nature Conservancy

Forest Monitoring in Colombia: Top-down and bottom-up approach

Carlos Pedraza, The Nature Conservancy, Universidad del Rosario; Nicola Clerici, Universidad del Rosario; Cristhian Fabian Forero, IDEAM Sistema de Monitoreo de Bosques y Carbono de Colombia SMByC; Gustavo Galindo, IDEAM Sistema Monitoreo Bosques y Carbono de Colombia SMByC; Claudia Huertas, GIS Analyst; America Melo, The Nature Conservancy; Diego Navarrete, The Nature Conservancy; Omar Sotelo, IDEAM Sistema de Monitoreo de Bosques y Carbono de Colombia SMByC; Cesar Augusto Valbuena, IDEAM Sistema de Monitoreo de Bosques y Carbono de Colombia SMByC; Andres Zuluaga, IDEAM Sistema de Monitoreo de Bosques y Carbono de Colombia SMByC

SYMPOSIUM

INTEGRATING ECONOMICS INTO BIODIVERSITY CONSERVATION PRACTICE

Sala 304

10:00-11:30

Diego Lizcano, The Nature Conservancy

Economic incentives are a key tool for biodiversity conservation. Governments usually promote policies based on such incentives to mitigate or halt



Basin-level trade-offs between conservation and hydropower development in the Magdalena River

Diego Hincapie Ossa, The Nature Conservancy; Hector Angarita, The Nature Conservancy; Juliana Delgado, The Nature Conservancy; Rafael Kelman, PSR; Tainá Martins, PSR; Justus Reapple, The Nature Conservancy; Carlos Rogéliz, The Nature Conservancy

Hydropower development and fish conservation in Colombia

Juliana Delgado, The Nature Conservancy; Hector Angarita, The Nature Conservancy; Luz Fernanda Jiménez-Segura, Universidad de Antioquia; Silvia López-Casas, The Nature Conservancy; Javier Maldonado, Pontificia Universidad Javeriana; Carlos Rogéliz, The Nature Conservancy

Integrating climate change in fisheries sustainability in northern south America rivers

Silvia López-Casas, The Nature Conservancy; Hector Angarita, The Nature Conservancy; Eduin H. Serna, DILE Predictive Analytics

12-MINUTE TALKS

CONSERVATION IN A CHANGING CLIMATE 1

Sala 103
11:30-13:00

Empty niches after extinctions increase population sizes of modern corals

Carlos Prada, STRI; Nancy Budd, University of Iowa; Michael DeGiorgio, The Pennsylvania state university; Roberto Iglesias-Prieto, The Pennsylvania state university; Keneth Johnson, National History Museum; Nancy Knowlton, Smithsonian National Museum of Natural History; Don Levitan, Florida State University; Monica Medina, The Pennsylvania state university; John Pandolfi, University of Queensland; Cheryl Woodley, NOAA

Climate change effects on a mammalian-rich and phylogenetic diverse Neotropical hotspot

Ricardo Bovendorp, Estate University of Sao Paulo; Mauro Galetti, Departamento Ecologia, Unesp; Alexandre Percequillo, University of São Paulo

Prioritizing tidal wetland conservation in an age of sea level rise

Nava Tabak, Scenic Hudson

Climate change impacts on birds and Important Bird Areas in Latin America and the Caribbean

Chad Wilsey, National Audubon Society; Stuart Butchart, BirdLife International; Lotem Taylor, National Audubon Society; Alke Voskaamp, Durham University; Stephen Willis, University of Durham

Tropical Andes protected-areas a large unequal expansion that needs to account for climate change

Javier Fajardo, Real Jardín Botánico (RJB-CSIC); Elisa Bonaccorso, Colegio de Ciencias Biológicas y Ambientales, Universidad San Francisco de Quito; Christian Devenish, Manchester Metropolitan University; Ángel Felicísimo, Centro Universitario de Mérida, Universidad de Extremadura, Mérida, España; Janeth Lessmann, Pontificia Universidad Católica de Chile; Rubén Mateo, Department of Ecology and Evolution, University of Lausanne, Lausanne, Suiza;

Phenological shifts provide a mechanism for thermal niche tracking over a century

Jacob Socolar, University of Connecticut; Morgan Tingley, University of Connecticut; Steven Beissinger, U.C. Berkeley; Peter Epanchin, U.S. Agency for International Development

Changing avian migration distances via climate-driven shifts in breeding and wintering ranges

Shannon Curley, CUNY Graduate Center, College of Staten Island; Lisa Manne, City University of New York; Richard Veit, CUNY, College of Staten Island

12-MINUTE TALKS

URBAN AND PERIURBAN ISSUES AND OPPORTUNITIES

Secretaría General
11:30-13:00

Utility of Citizen Scientists in a mega-diverse country monitoring our plants

Dewidine Van Der Colff, South African National Biodiversity Institute; Ismail Ebrahim, South African National Biodiversity Institute; Sjikr Geerts,



Cape Peninsula University of Technology; Donna Kotze, Indigo; Eugene Marinus, South African National Biodiversity Institute; Domitilla Raimondo, S African Nat'l Biodiver Inst

The Effect of Dumping Garden Waste in Wellingtons Reserves

Miriam Sherratt, Victoria University and Wellington City Council

Targeting Human Consumption and Dietary Changes for Global Biodiversity Conservation

Abhishek Chaudhary, ETH Zurich; Alexander Mathys, ETH Zurich

Experiencing nature in a post-biodiversity world

Richard Fuller, University of Queensland

Sher Khan Bagheera Akela and Mowgli current conservation picture in Kiplings yard

Anindita Chatterjee, Wildlife Institute of India

Resilience of peri-urban secondary forests in Andean forests taxonomic and a functional perspective

Ana Hurtado, Ponificia Univerdidad Javeriana; Maria Echeverry-Galvis, Pontificia Universidad Javeriana; Diego Gonzalez, Conservation International Colombia; Natalia Norden, Instituto Alexander von Humboldt; Juan Posada, Universidad del Rosario; Beatriz Salgado-Negret, Universidad del Norte

Amenity demand versus species conservation in Indian zoos

David Martin, Davidson College; Cassidy Shell, Davidson College

12-MINUTE TALKS

POLICY AND PRACTICE

Arsenal
11:30-13:00

Collaborate with existing initiatives Perspectives of IUCN experts engaged in IPBES

Laurence Perianin, IUCN; Thomas Brooks, IUCN; Philip McGowan, Policy Subcommittee, IUCN Species Survival Commission; Cyriaque Sendashonga, IUCN; Ximena Velez-Liendo, Bear Specialist Group, IUCN Species Survival Commission

Biocultural approaches can ensure just and effective conservation processes across diverse contexts

Michael Gavin, Colorado State University; Fikret Berkes, University of Manitoba; Joe Mccarter, American Museum of Natural History; Aroha Mead, IUCN/CEESP; Ruifei Tang, IUCN/CEESP

Future fire scenarios how fire management strategies shape habitat for threatened species

Jemima Connell, La Trobe University; Sarah Avitabile, La Trobe University; Andrew Bennett, La Trobe University; Michael Clarke, La Trobe University; Rohan Clarke, Monash University; Natasha Schedvin, Department of Environment, Land, Water and Planning (DELWP); Kathryn Schneider, Parks Victoria; Rick Taylor, La Trobe University; Simon Watson, La Trobe University

Ecotourism for Conservation Cetacean Vulnerability to Whale Watching in the Caribbean

Bonnie Raschke, Arizona State University;

Does local empowerment result in higher support to conservation decision makers?

Vera Hausner, UiT-the Arctic University of Norway; Sigrid Engen, UiT-the Arctic University of Norway; Per Fauchald, Norwegian Institute for Nature Research

Can the current biodiversity offset policy achieve a biodiversity: No-net-loss in Colombia

Carolina Murcia, Universidad Javeriana-Seccional Cali & CIFOR; Manuel Guariguata, CIFOR; Estela Quintero, Universidad EAFIT/CIFOR

Change of Course in Conservation Planning: Leveraging Ecosystem-Based Action in Brazil

Carolina Del Lama Marques, IUCN; Milton Asmus, FURG; Miguel Avila Moraes, IUCN; Maria Oliveira-Miranda, Instituto de Recursos Naturales; Claudio Padua, Ipe; Marinez Scherer, UFSC

A synthesis on coral reef restoration efforts

Elisa Bayraktarov, The University of Queensland; Catherine Lovelock, The University of Queensland; Hugh Possingham, The University of Queensland; Megan Saunders, The University of Queensland; Kerrie Wilson, The University of Queensland

12-MINUTE TALKS

INDIGENOUS KNOWLEDGE AND CONSERVATION 1

Barahona 1
11:30-13:00

Management and conservation of Yellow-spotted River Turtle in Yasuni National Park Ecuador
Adrián Naveda-Rodríguez, Wildlife Conservation Society - Ecuador Program; Galo Zapata-Ríos, Wildlife Conservation Society - Ecuador Program; Rubén Cueva, Wildlife Conservation Society - Ecuador Program

An overview of the ethnoprimateology of the Tikunas at the Colombian-Peruvian Amazonian border

Angela Maldonado, Fundacion Entropika;
Thomas Lafon, Fundacion Entropika

Local knowledge patterns and Ethnic differences in use values of *Diospyros mespiliformis* in Benin

Laurent GNONLONFIN, University of Parakou/
Republic of Benin, West Africa

Adaptive management of dwindling herds of Arctic caribou under climate change

Per Fauchald, Norwegian Institute for Nature Research; Vera Hausner, UiT - Arctic University of Norway

Indigenous knowledge and science integration the case for Philippine eagles and Indigenous peoples

Dennis I. Salvador, Philippine Eagle Foundation;
Jayson Ibanez, Philippine Eagle Foundation

Traditional knowledge and social benefits in Pacific herring management the Ocean Modeling Forum

Tessa Francis, University of Washington Tacoma;
Phillip Levin, The Nature Conservancy

Understanding Nanuk Polar Bear for its conservation in Nunatu Kavut and recovery in Canada

Patricia Nash, NunatuKavut Community Council

12-MINUTE TALKS

CONSERVATION CONFLICTS 2

Barahona 2
11:30-13:00

Large carnivores can save money and lives in developing nation cities

Chris O'Bryan, University of Queensland;
Alexander Braczkowski, University of Queensland

Unravelling human-carnivore conflicts through ecological and management frameworks

Dario Moreira-Arce, Facultad de Ciencias, Universidad de Chile; Javier Simonetti, Facultad de Ciencias, Universidad de Chile; Javier Simonetti, Facultad de Ciencias, Universidad de Chile; Carolina Ugarte, Facultad de Ciencias, Universidad de Chile

Equity and accessibility of cultural ecosystem services from the protected areas

Maria Martinez-Harms, University of Queensland

Making the Matrix Matter in India: A Landscape-centric Approach and Unintended Wildlife Spaces

Diya Paul, Rutgers, The State University of New Jersey

Who bears the cost of forest conservation?

Rina Mandimbinaiaina, Ecoles Superieure des Sciences Agronomiques; Mahesh Poudyal, University of Wales, Bangor; Nilsen Spener Andrianantenaina, Ecoles Superieure des Sciences Agronomiques; James Gibbons, University of Wales, Bangor; Neal Hockley, University of Wales, Bangor; Julia Jones, University of Wales, Bangor; Onjamirindra Rakotonarivo, University of Stirling; Bruno Ramamonjisoa, Ecoles Superieure des Sciences Agronomiques; Alexandra Rasoamanana, Ecoles Superieure des Sciences Agronomiques

Community management of jaguars and pumas: Multi-stakeholder processes and methods

Ronit Amit, Programa Gente y Fauna; Susan Jacobson, University of Florida; Natalia Valverde-Zúñiga, Programa Gente y Fauna

SYMPOSIUM

TACKLING OVER-COLLECTION OF WILD PLANTS; IS HORTICULTURE A CONSERVATION PROBLEM OR SOLUTION?

Barahona 3 (livestreaming and live translation)

11:30-13:00

Lauren Gardiner (Conservation Science, Royal Botanic Gardens, Kew); Amy Hinsley (University of Oxford)

Although much conservation attention is paid to charismatic megafauna, one in five of the world's almost 400,000 plant species is threatened with extinction. Of those, IUCN data shows that more than 20% are directly threatened by collection from the wild for subsistence use or trade, including for food, building materials, medicine and as ornamental plants. Horticultural techniques that have been developed over thousands of years to grow crop plants and living collections in botanical gardens have long contributed to the ex situ conservation of plants around the world. Yet horticulture can also be a threat: many rare plant species have been collected to extinction for the horticultural trade, and encouraging propagation of useful plants is an often suggested solution to over-collection, but one that may actually increase wild-collection. This symposium will bring together experts from research and practice to present experiences and viewpoints, from different disciplines, of the role of horticulture in preventing over-collection of wild plants and securing their representation in ex situ collections. Speakers will include anthropologists working on sustainability of subsistence use, botanists and conservationists who specialise in different groups of threatened plants, as well as practitioners who work closely with horticultural traders and corporations using wild plant material.

Are private horticultural collections species' saviours or drivers of extinction?

Lauren Gardiner (Royal Botanic Gardens, Kew)

Ex-situ conservation of succulent plants: examining tensions in horticulture

Lucas Majure (Desert Botanic Garden); Olwen Grace (Royal Botanic Gardens, Kew)

Seed banking and horticulture: complementary tools for the conservation, restoration, and increased genetic diversity of wild plants

Eva Martens (Royal Botanic Gardens Kew)

Horticulture as strategy for in situ and ex situ orchid diversity conservation in the Andes

Tatiana Arias (The Corporation for Biological Research)

Can cultivation of the economically valuable Xate palm take pressure off its wild populations? (Video presentation)

Sophie Williams (University of Wales, Bangor); Robert Annewandter (Carreg y Fedwen Cyf); Julia Jones (University of Wales, Bangor)

Horticultural propagation versus wild collection for commercially viable yields

Susanne Masters (Leiden University)

12-MINUTE TALKS

ECOLOGICAL RESTORATION AND RECONSTRUCTION 1

Barahona 4

11:30-13:00

Genetic structure of sponge populations in the Greater Caribbean restoration ecology implications

Sarah Griffiths, Manchester Metropolitan University; Donald Behringer, University of Florida; Mark Butler, Old Dominion University; Thierry Pérez, Institut Méditerranéen de Biodiversité et d'Ecologie marine et continentale; Richard Preziosi, Manchester Metropolitan University; Evelyn Taylor-Cox, Manchester Metropolitan University

Are the ghosts of nature's past haunting conservation today?

Brian Silliman, Duke University

Time-delayed responses to land-use changes reveal a window of opportunity for biodiversity

Asunción Semper Pascual, Humboldt University; Matthias Baumann, Humboldt University; Pedro G. Blendinger, CONICET; Pedro G. Blendinger, CONICET; Julieta Decarre, Instituto de Recursos

Biológicos, INTA; BIBIANA Gómez-Valencia, Departamento de Ecología, Genética y Evolución, Universidad de Buenos Aires; Tobias Kuemmerle, Humboldt University; Leandro Macchi, CONICET; Matias Mastrangelo, Universidad Nacional de Mar del Plata; Francesco Sabatini, Humboldt Universität zu Berlin

African Houbara bustard restoration program a holistic conservation strategy

Yves Hingrat, Reneco International Wildlife Consultants

Urban parks as habitat providers for biodiversity a multi-scale analysis in the urban area of Milan

Emilio Padoa Schioppa, University of Milano-Bicocca, department of Earth and Environmental Sciences; Claudia Canedoli, University of Milano-Bicocca, department of Earth and Environmental Sciences; Raoul Manenti, Univeristà degli Studi di Milano, Dipartimento di Bioscienze

Wild Deserts restoration of Australias desert ecosystems integrating science and management

Richard Kingsford, Centre for Ecosystem Science, School Biological Earth & Env; David Keith, Centre for Ecosystem Science, University of NSW; Keith Leggett, Centre for Ecosystem Science, UNSW Australia; Mike Letnic, Centre for Ecosystem Science, UNSW Australia; Katherine Moseby, Centre for Ecosystem Science, UNSW Australia; Reece Pedler, Centre for Ecosystem Science, UNSW Australia; John Read, Ecological Horizons; Sharon Ryall, Centre for Ecosystem Science, UNSW Australia; Rebecca West, Centre for Ecosystem Science, UNSW Australia

Avifauna in re-connected Andean forests 10 years after the restoration of connectivity corridors

Carolina Montealegre, Universidade de São Paulo; Maria Angela Echeverry-Galvis, Pontificia Universidad Javeriana; Luis Miguel Renjifo, Pontificia Universidad Javeriana; Swen Renner, University of Natural Resources and Life Sciences; Marcela Suarez-Rubio, University of Natural Resources and Life Sciences

SYMPOSIUM

CORAL REEFS CONSERVATION EFFECTIVENESS (*Citizen Science Journey*)

Sala 301

11:30-13:00

Nohora Galvis, Observatorio Pro Arrecifes Coral, Fundacion ICRI Colombia

It is relevant the identification, measurement and monitoring of indicators of Conservation Effectiveness in coral reef areas to plan improvement of management efforts. Managers think global and act locally to report accountability. However, they face national priorities for unsustainable development that may hamper the survival of coral reef areas. Low Effectiveness Percentages seem to be normal in current coral reef ecosystems. While some that are far away from populated areas present low coral cover others that are close to overpopulated areas that are not yet protected, have resilient high healthy coral cover. Multidisciplinary Scientific explanations including from citizen science to genetics, point at different levels of adaptation to chronic or acute exposure to anthropogenic impacts such multinational oil exploration, dredging, shipping, illegal fishing, weapon testing, garbage and sewage dumping that may exacerbate global warming effects in isolated coral reefs. International Case studies find approaches for adaptive management focus on research questions such as: 1) Recommendations to improve effectiveness of conservation to achieve ecological, social and economic objectives; 2) Successful efforts for Multi-Species Coral Reef Ecosystem Restoration vs. Constrains faced by the Coral Mono-Species Restoration; 3) Integrative approaches.

Measuring Coral Reef Conservation Effectiveness to plan improvements

Nohora Galvis, Observatorio Pro Arrecifes Coral, Fundacion ICRI Colombia; Rosa Helena Galvis, Observatorio Pro Arrecifes Coralinos de Colombia

Up to 80% coral cover in peril: Varadero, an unusual coral reef

Valeria Pizarro, Fundación Ecomares; Roberto Iglesias, Penn State University; Mateo López-Victoria, Pontificia Universidad Javeriana Cali; Mónica Medina, Penn State University; F. Joseph Pollock, Penn State University; Fernando A. Zapata, Universidad del Valle; Sven Zea, Universidad Nacional de Colombia

Contributing to the effective management of the Mesoamerican Reef

Marisol Rueda, Healthy Reefs for Healthy People Initiative

Optimizing invasive lionfish control to protect Caribbean reef fish communities

Stephanie Green, Center for Ocean Solutions

Effectiveness of indicators for monitoring ecological integrity of coral reefs in the Mexican Caribbean

Melanie Kolb, Instituto de Geografía, Universidad Nacional Autónoma de México; Diana Carrillo, Facultad de Ciencias, Universidad Nacional Autónoma de México

Panel discussion

12-MINUTE TALKS

GENETICS, EVOLUTION AND BIOGEOGRAPHY 1

Sala 302
11:30-13:00

Using phylogenetic endemism for conservation priority-setting: Clades climate and scale matter

Mary Blair, Center for Biodiversity & Conservation, American Museum of Natural History; Peter Galante, Center for Biodiversity & Conservation, American Museum of Natural History; James Herrera, American Museum of Natural History; Richard Pearson, University College London; Christopher Raxworthy, American Museum of Natural History; Eleanor Sterling, Center for Biodiversity & Conservation, American Museum of Natural History

Developing a DNA Barcode Scanner for Conservation

David Baisch, Conservation X Labs

Incorporating Parallel Evolution and Hybridization in Delineating Units under Species-at-Risk Acts

Paul Wilson, Trent University; Micheline Manseau, Landscape Science and Technology Division, Science and Technology Branch, Environment and Climate Change Canada (ECCC)

Exploring the Gut Microbiome in Neotropical Jaguars and Pumas: The Next Big Thing is Really Small

Claudia Wultsch, Panthera & AMNH; George Amato, American Museum of Natural History; Marcella Kelly, Dept of Fisheries and Wildlife; Konstantinos Krampis, City University of New York; Howard Quigley, Panthera; Lisette Waits, Univ of Idaho

Global elevational diversity and diversification of birds

Ignacio Quintero, Yale University; Walter Jetz, Yale University

Applying Next Gen Sequencing to Conservation of Critically Endangered Caribbean Acroporids

Kayla Ripple, Coral Restoration Foundation; Jessica Levy, Coral Restoration Foundation; Ken Nedimyer, Coral Restoration Foundation; Steve Vollmer, Northeastern University; R Winters, Coral Restoration Foundation

Development of a protocol to increase the sensitivity of aquatic environmental DNA (eDNA monitoring)

Breanna Caton, The University of Toledo; Daryl Dwyer, The University of Toledo; Daryl Moorhead, The University of Toledo; William Sigler, The University of Toledo; Carol Stepien, The University of Toledo; John Turner, The University of Toledo

SYMPOSIUM

BIODIVERSITY INDICATORS: MEASURING CHANGE IN A DYNAMIC AND UNCERTAIN WORLD

Sala 303
11:30-13:00

Michael Burgass, Imperial College London; Emily Nicholson, Deakin University

The aim of this symposium is to review lessons learnt & short comings from the current global indicator process, highlight methodological advances and requirements in indicator design, and discuss future frameworks for indicator use. Despite the proliferation of biodiversity indicators, there remain large challenges to their effective implementation. Many biodiversity targets have poorly aligned indicators or no indicators at all

and the majority of these remain untested. Indicators can and should contribute to policy formulation and evaluation at global, regional, local levels if properly constructed, but is rarely the case and gaps remain in the understanding of how indicators work and relate to real life in an uncertain and dynamic world. This symposium will demonstrate lessons learnt from well-known environmental indicators, new research in testing and improving current indicator design as well as new frameworks to work towards. The symposium will stimulate discussion on these aspects, the role of indicators in policy and how society chooses to move forward. The first 60 minutes will be 5 presentations of 12 minutes, followed by a chaired 30-minute panel discussion. Panelists will take audience questions to discuss the content of the presentations and future directions of indicators.

The Sufficiency and Suitability of Global Biodiversity Indicators to monitor biodiversity change

Derek Tittensor, UNEP-WCMC; Chris Mcowen, UNEP-WCMC; Anna Chenery, UNEP-WCMC; Matthew Dixon, Environmental Change Institute, Oxford University; Sarah Ivory, UNEP-WCMC; Andreas Obrecht, Federal Office for the Environment, Bern; Eugenie Regan, The Biodiversity Consultancy; Anne Teller, European Commission—DG Environment

Testing whether biodiversity indicators detect policy induced change in marine ecosystems

Emily Nicholson, Deakin University; Alberto Barausse, University of Padova; Ben Collen, UCL; E.J. Milner-Gulland, University of Oxford

Progressing Performance Measures to Ecosystem Questions (Video presentation)

Beth Fulton, CSIRO

Navigating uncertainty in environmental composite indicators

Michael Burgass, Imperial College London; Benjamin Halpern, Nat. Center for Ecol. Analysis; E.J. Milner-Gulland, University of Oxford; Emily Nicholson, Deakin University;

A global mitigation hierarchy for nature conservation

William Arlidge, University of Oxford; Prue Addison, University of Oxford; Joseph Bull,

University of Copenhagen - KU; Michael Burgass, Imperial College London; Dimas Gianuca, University of Exeter; Taylor Gorham, Marine Stewardship Council; Taylor Gorham, Marine Stewardship Council; Sam Lloyd, Imperial; E.J. Milner-Gulland, University of Oxford; Nicole Shumway, The University of Queensland; James Watson, Wildlife Conservation Society; Chris Wilcox, CSIRO Marine and Atmospheric

Panel discussion

12-MINUTE TALKS

SOCIAL SCIENCE FOR CONSERVATION 1

Sala 304

11:30-13:00

How can the conservation social sciences improve conservation?

Nathan Bennett, University of British Columbia

Poverty and low preference drives the consumption of protected species in Madagascar

Samuel Merson, University of Oxford; Luke Dollar, National Geographic Society; Paul Johnson, University of Oxford; David Macdonald, Univ of Oxford

Social Assessment as basis for promoting an Integrated Management Approach at Liberia's oldest PA

Shadrach Kerwillain, Fauna and Flora International; Mary Molokwu, Fauna & Flora International, Liberia; Kathryn Phillips, Fauna & Flora International; Rob (cxl) Small, Fauna & Flora International; Matthew Varney, Fauna & Flora International

Public understanding of hybridization, conservation, and the role of wildlife tourism

Catherine Macdonald, Abess Center for Ecosystem Science and Policy



Ecosystem Services Affect Public Preference for Wildlife Conservation

Shelly Johnson, University of Florida; Damian Adams, University of Florida; Holly K Ober, North Florida Research & Ed Cn

Perception of Andean bears in a community-based conservation project in Perus Tropical Andes

Carlos Jimenez, YUNKAWASI; Vanessa Luna-Celino, YUNKAWASI; Fanny Cornejo, Yunkawasi & Stony Brook University; Roxana Rojas-Vera Pinto, Frankfurt Zoological Society-Peru/ Isnachi; Elizabeth Sperling, YUNKAWASI

A Framework to Evaluate the Effectiveness of No-Take Marine Reserves

Juan Carlos Villaseñor-Derbez, Bren School of Environmental Science and Management; Caio Faro, Bren School of Environmental Science and Management; Christopher Costello, Bren School of Environmental Science and Management; Stuart Fulton, Comunidad y Biodiversidad A.C.; Jael Martínez, Bren School of Environmental Science and Management; Alvin Suarez, Comunidad y Biodiversidad A.C.; Jorge Torre, Comunidad y Biodiversidad A.C.; Melaina Wright, Bren School of Environmental Science and Managemen

other hand, also for the significant opportunities that these cities could be still offering for reducing the rate of biodiversity loss in this part of the world. The growing interest for address these challenges and opportunities for biodiversity conservation in Latin American cities has been promoting an increasing series of descriptive studies and quantitative analysis. In addition to process to incorporate biodiversity as a strategic element in processes of urban planning and environmental management. This symposium seeks to present current advances towards integral conservation of biodiversity in Latin American urban areas. To achieve this goal, a series of presentations and a panel discussion about conceptual and practical developments will be promoted, as well as various case studies to address comprehensibly the ecological, social, economic and political aspects that converge around the conservation of biodiversity in cities of Central and South America. This symposium will contribute to a better understanding of the importance of cities into the Neotropical biodiversity conservation and what role must to play conservationist, urban planners as well as decision makers to guide actions and policies needed to accomplish this purpose.

Green cities: Anthropogenic biodiversity hotspots

Brigitte Baptiste, Instituto de Investigación de recursos Biológicos Alexander von Humboldt

Diversity, function and ecosystem services provided by conservation areas in Latin American cities

Francisco Escobedo, Universidad del Rosario-Facultad de Ciencias Naturales y Matemáticas

Spatio-temporal fragmentation of ecosystem services for Bogota and Santiago

Cynnamon Dobbs, Pontificia Universidad Catolica de Chile

Global patterns of bird richness and abundance along urbanization gradients and green areas

Lucas Leveau, CONICET

Panel Discussion

SYMPOSIUM

THE URBAN CHALLENGE: LATIN AMERICAN CITIES AS HOTSPOTS OF OPPORTUNITIES FOR BIODIVERSITY CONSERVATION

Sala 103

14:30-16:00

Juan Amaya-Espinel, Instituto Alexander von Humboldt - Pontificia Universidad Javeriana

The accelerated rate of urban growth in Latin America represent a contrasting duality of challenges and opportunities for the biodiversity conservation. First, for the negative effects that this process could have on the structure and functioning of natural ecosystems, the survival of multiple groups of fauna and flora and their participation in ecosystem services delivery closely linked to the urban dwellers well-being in this development countries. But on the



KNOWLEDGE CAFÉ

ENGAGING CONSERVATION OPPORTUNITIES

Hall de exposiciones
14:30-16:00

Biodiversity and coffee

Melissa Vogt, UNSW

Livestock grazing the emerging threat in giant panda habitats impacts drivers and solutions

Binbin Li, Duke; Stuart Pimm, Duke University;

Current state needs and challenges for biodiversity conservation in Latin America

Jesus Pacheco, Instituto de Ecología, UNAM, Mexico; José González-Maya, ProCAT Colombia/Sierra to Sea Costa Rica; Gerardo Ceballos, Instituto de Ecología, UNAM, Mexico; Andres Garcia, Instituto de Biología, UNAM, Mexico; Lourdes Martinez-Estovez, University of California Santa Cruz, USA; Horacio Zeballos, Pontificia Universidad Católica del Perú, Lima, Perú

Serranía de los Yariguíes Assessment and Research of Endangered Species and Conservation Strategies

Diana Villanueva-Ceballos, Universidad Nacional de Costa Rica; Fundación Biodiversad; Jose Aguilar, Universidad Industrial de Santander ; John Arias, Fundación ProAves; Yulied Bautista, Fundación ProAves; Thomas Donegan, Fundación ProAves; Blanca Huertas, Fundación ProAves; Juan Luna, Fundación ProAves; José Pinto, Fundación ProAves; Viviana Romero-Alarcon, Universidad Industrial de Santander

Achieving conservation and development a policy framework and case studies from the tropics

Alejandro Ortega-Argueta, ECOSUR; Angelica Hernandez Guerrero, ECOSUR; Rubi Alderete-Dominguez; Danielle Barriga-Guijarro; Jose Morales-Rodriguez, ECOSUR; Mariana Pineda-Vazquez, ECOSUR

Inter-agency collaboration for participatory approaches to conservation in the Andean Amazon

Diana Alvira, The Field Museum; Ashwin Ravikumar, The Field Museum

Ways forward to manage small-scale fisheries in the Colombian Pacific coast

Gustavo Castellanos Galindo, WWF Colombia; Rodrigo Baos, WWF Colombia; Lina Saavedra-Díaz, Universidad del Magdalena; Luis Zapata, WWF Colombia

Improving communication strategies to conserve a risk-laden species facing a conservation crisis

Heidi Kretser, Wildlife Conservation Society; Bruce Lauber, Cornell University; Katherine McComas, Cornell University

Peace-building in post-conflict Colombia: Supporting peace with environmentally-friendly agriculture

Vivian Valencia, University of Michigan

Protecting transboundary watersheds: The case of the Okavango basin

Adjany Costa, National Geographic

SYMPOSIUM

LEARNING FROM ACROSS THE SOCIAL SCIENCES TO INFORM EVIDENCE-BASED DEMAND REDUCTION STRATEGIES

Secretaría General
14:30-16:00

Diogo Veríssimo, Rare/Johns Hopkins University; EJ Milner-Gulland, University of Oxford

The unsustainable trade in wildlife is increasingly recognized a key threat to biodiversity. Efforts to mitigate the impacts of this trade have historically focused on curtailing supply through regulation and enforcement. While the extent of success of such measures is a matter of debate, a consensus has emerged that without a focus on the demand side of the trade, any attempt to limit it to a sustainable level will fail in the long run. As influencing demand for wildlife products entails understanding and changing human behavior and societal norms, the methods needed are within the realm of the social sciences. This can be a barrier to conservationists, who may not be aware of the potential for different fields to contribute to demand reduction research and intervention. In this Symposium, we will bring together professionals from across the social sciences to showcase approaches used in their fields to influence human behaviours. Our



speakers will cover academic fields such as psychology and economics, whose goal is to better understand human decisions, as well as applied fields such as social marketing, that have a wealth of knowledge on how to design, implement and evaluate behavior change interventions. By bringing together researchers and practitioners in fields that are still not well integrated within conservation science, we aim to foster a wider adoption of social science among those working to manage demand for wildlife products. The symposium will also be of interest to those aiming to influence human behaviour or better integrate social science into their research.

Reducing demand for wildlife: How are we doing?

Diogo Verissimo, Rare, Johns Hopkins University; Anita K.Y. Wan, Consultant

Using methods from economics to understand consumer preferences for wildlife

Amy Hinsley, University of Oxford

Applying social marketing to reducing demand for wildlife: three campaigns experiences

Livingston White, Caribbean Institute of Media and Communication, The University of the West Indies; Leo Douglas, Columbia University, New York City; Kelvin Alie, Wildlife Trade Program, International Fund for Animal Welfare, Washington DC; Shira Yashphe, School of International & Public Affairs, Columbia University, New York City

Designing positive bear bile reduction campaigns for Chinese tourists

Shannon Randolph, San Diego Zoo Global; Jenny Glikman, Institute for Conservation Research, San Diego Zoo Global; Matt Hunt, Free the Bears; Luke Nicholson, Free the Bears; Sengaloun Vongsay, Free the Bears

Conservation criminology approaches for managing demand for wildlife products

Meredith Gore, Michigan State University; Jessica Kahler, Michigan State University

Panel discussion

SYMPOSIUM

LINKING CONSERVATION SCIENCE TO DECISIONS IN THE REAL WORLD

Arsenal

14:30-16:00

Molly Cross, Wildlife Conservation Society

Bridging the gap between science and practice remains one of the greatest challenges facing the conservation community. To address this, scientists are now expected to do more than just robust research; they need to engage with multiple disciplines and sectors to collectively produce and implement knowledge into decision-making. Navigating such an engagement process is not a trivial task. Science-policy-practice interfaces (SPPIs) are often complex, requiring the capacities and needs from different stakeholders to be taken into account. Yet, the toolbox available to address such complexity is expanding. Approaches such as knowledge coproduction, mental model elicitation, adaptive management and theory of change mapping have all shown promise in recent years. This symposium will showcase and discuss the value of such tools in maximizing conservation science impact. We aim to start the session with a talk that frames SPPIs within conservation and presents the mechanisms through which each tool can help science's role in SPPI. Our speakers will then present their research projects, demonstrating the real-world application of such approaches in a diversity of conservation contexts. We aim to cover not just successes, but also failures, to promote debate during the closing discussion. All symposium participants will be encouraged to add their experiences. This structure aims to fuel a thought provoking, and needed, discussion within the conservation community. The ICCB is a unique podium from which to reach such an audience.

Working at the Interface: Approaches that enhance the contribution of science to real world

Melanie Ryan, Luc Hoffmann Institute/ University of Cambridge; Carina Wyborn, Luc Hoffmann Institute

Linking biodiversity impact to global supply chain actors: The case of soy production in Brazil

A. Paz Durán, University of Cambridge; Andrew Balmford, University of Cambridge; Duan Biggs,

Griffith University; Neil Burgess, UNEP-World Conservation Monitoring Centre; Simon Croft, Stockholm Environment Institute; Edegar de Oliveira Rosa, World Wide Fund for Nature (WWF) - Brazil; Toby Gardner, Stockholm Environment Institute; Jonathan Green, Stockholm Environment Institute; Angela Guerrero Gonzalez, University of Queensland; Malika Virah-Sawmy, Luc Hoffmann Institute; Chris West, Stockholm Environment Institute

Knowledge co-production with palm oil supply chain in Cameroon

John Garcia Ulloa, ETH Zurich; Jaboury Ghazoul, ETH Zurich; Anne Dray, ETH Zurich; Eglantine Fauvelle, CIRAD; Claude Garcia, ETH Zurich, CIRAD; Durrel Halleson, WWF Cameroon; Patrice Levang, Institut de recherche pour le développement (IRD); Emmanuel Ngom, Ministère de l'Agriculture et du Développement Rural Cameroon

Management of protected areas in Colombia under climate uncertainty

Claudia Munera, Australian National University, Fenner School of Environment and Society; Nigel Dudley, Equilibrium; Michael Dunlop, CSIRO Land & Water; Carolina Figueroa, Luc Hoffmann Institute; Oscar Guevara, WWF; Lorrae Van Kerkhoff, Australian National University, Fenner School of Environment and Society; Carina Wyborn, Luc Hoffmann Institute

Setting China national parks within an ecosystem services framework

Siyuan He, Beijing Normal University; Hongguang Cheng, Beijing Normal University; Louise Gallagher, Luc Hoffmann Institute, WWF International; Yang Su, Development Research Center of the State Council, China; Lei Wang, WWF China

Leveraging graduate student interest and agency needs for climate change planning

Mark Schwartz, University of California

SYMPOSIUM

RURAL COMMUNITIES AND INDIGENOUS PEOPLES CONTRIBUTIONS TO THE CONSERVATION OF THE AMAZON BASIN (*Diversity, Equity and Inclusion Journey*)

Barahona 1

14:30-16:00

Zulema Lehm, Wildlife Conservation Society; Robert Wallace, Wildlife Conservation Society

In the 1980's conservation science proposed a new theoretical and practical "paradigm" called Community-based Conservation, contrasting with the more traditional conservation approach "without people". Since then a broad "rainbow" of associated theoretical, methodological and practical tools have been developed, and new data highlights the importance of communal rural systems on the access and use of land and biological diversity. Globally, it is estimated that more than a half of terrestrial land is held by these traditional systems, however, their social and economic importance is not fully appreciated. Protected areas and indigenous territories cover 45.5% of the Amazon Basin, of which 28.1% corresponds to indigenous territories. Deforestation between 2000 and 2013 is less in indigenous territories (0.8%) than in protected areas (1.1%) and between both, markedly less than the rest of the Amazon (3.6%). The objective of this symposium is to highlight and discuss which models have worked better, which have failed, what capabilities are required, and which conditions are necessary for successful community-based territorial management models. Presenters will detail traditional access and use systems employed by different kind of Amazonian rural and Indigenous Peoples, as well as new strategies that they are applying to use and conserve their lands and territories in the 21st century.

Indigenous and communal strategies to conserve biodiversity in the Amazon Basin

Zulema Lehm, Wildlife Conservation Society; Robert Wallace, Wildlife Conservation Society

Sustainability Conservation and Development of Local Riverine Populations in the Amazon Várzeas

Helder Queiroz, Mamirauá Institute



The indigenous territorial and natural resources management in the Madidi Landscape, Bolivia
Kantuta Lara Delgado, Wildlife Conservation Society; Oscar Loayza Cossio, Wildlife Conservation Society

Indigenous Landscape Putumayo-Amazonas: Mosaic of Rights for Sustainable and Responsible Governance

Ana Rosa Sáenz, Instituto del Bien Común

BNS as an evaluation tool of management and policies in the Low Rio Negro Mosaic, Amazonas, Brazil

Alessandra Ribeiro, Wildlife Conservation Society; Guillermo Estupinan, Wildlife Conservation Society; Karl Didier, Wildlife Conservation Society

Panel discussion

SYMPOSIUM

HUMAN-CARNIVORE CONFLICT IN REGIONS UNDERGOING LAND- USE CHANGE

Barahona 2

14:30-16:00

Arash Ghoddousi, Humboldt University-Berlin;
Tobias Kuemmerle, Humboldt University-Berlin; Alfredo Romero-Muñoz, Humboldt University-Berlin

Human-wildlife conflict causes socioeconomic losses to people and leads to wildlife killing, both of which undermines conservation success. Important improvements regarding our understanding of the ecological, socioeconomic, and psychological factors involved in leading to conflicts or promoting coexistence between people and carnivores have recently been made. However, how land-use change, by itself the single most important driver of biodiversity loss via habitat loss, degradation and fragmentation, affects how human-carnivore interactions play out remains under-researched. This symposium explores how human-carnivore conflict and coexistence varies across different types of land-use change (e.g., agricultural expansion vs. intensification), different land-use transition stages (e.g., frontier landscapes vs. stable landscapes), and different land-use actors (e.g., smallholders vs. agri-business farmers). Finally, we will

explore how addressing underlying drivers of land-use change on the supply and demand side provide opportunities for lessening human-wildlife conflict. Collectively, the symposium will highlight that a more systematic assessment of the relationships between land use and conflict is an important step for avoiding and resolving human-wildlife conflicts.

Land-use change and direct threats as drivers of jaguar and puma habitat loss in the Gran Chaco
Alfredo Romero-Muñoz, Humboldt University-Berlin; Matthias Baumann, Geography Department, Humboldt University-Berlin; Micaela Camino, Centre of Applied Ecology of the Litoral Region (CECOAL) and CONICET, Argentina; Julieta Decarre, Instituto de Recursos Biológicos, INTA, Argentina; Anthony Giordano, S.P.E.C.I.E.S.; Bibiana Gomez-Valencia, Departamento de Ecología, Genética y Evolución, Universidad de Buenos Aires; Tobias Kuemmerle, Geography Department, Humboldt University-Berlin; Andrew Noss, Department of Geography, University of Florida; Jeffrey Thompson, Consejo Nacional de Ciencia y Tecnología (CONACYT), Asunción, Paraguay; Ricardo Torres, Instituto de Diversidad y Ecología Animal, Universidad Nacional de Córdoba

Land-use practices influencing human-leopard conflicts in a human-dominated landscape
Arash Ghoddousi, Humboldt-Universität zu Berlin; Delaram Ashayeri, Freelance researcher; Benjamin Bleyhl, Humboldt-Universität zu Berlin; Tobias Kuemmerle, Humboldt-Universität zu Berlin; Peyman Moghadas, Freelance researcher; Pooriya Sepahvand, Persian Wildlife Heritage Foundation; Clara Sichau, Humboldt-Universität zu Berlin

Co-existence in a Tiger Reserve in India: Complex interactions between people, wildlife and forests
Gladwin Joseph, Conservation Biology Institute

The influence of values and land use on attitudes toward management of human-wildlife conflicts
Alia Dietsch, Ohio State University

Panel discussion

SYMPOSIUM

MIND THE GAP AN OPEN- SCIENCE NETWORK FOR INTEGRATED ECOSYSTEM RESEARCH IN COLOMBIA

Barahona 3 (livestreaming and live translation)
14:30-16:00

Maria Londono, Instituto Alexander von Humboldt; Bjorn Reu, Universidad Industrial de Santander; Lina Estupinan-Suarez, Instituto de Investigacion de Recursos Biologicos Alexander von Humboldt; Juan Posada, Universidad del Rosario

Colombia is experiencing a tremendous societal and economic transformation with unknown consequences for its biodiversity and ecosystems. While rates of change of land cover and climate have reached unprecedented velocities, information about the state of Colombian ecosystems is becoming increasingly available and openly accessible. However, these data are often heterogeneous, dispersed, and difficult to access. Moreover, the monitoring efforts in Colombia occur at different sites and timing. In order to respond to the challenges of rapid ecosystem transformation in Colombia, we invite you to join this initiative for an open science network for integrated ecosystem research, and share your research experience from a multiscale and transdisciplinary perspective. This will foster the discussion about establishing an ecological observatory system for monitoring important ecosystem variables such as climate, biogeochemistry, biodiversity, and socio-economic drivers. We are interested in understanding not only local ecosystem process, but also interactions between the biosphere and atmosphere; how these are affected by human activities and do affect ecosystem services and human well-being. The symposium aims to: Show data platforms and compile new initiatives that investigate ecosystem functioning across disciplines; Foster the exchange of experiences on studying ecosystem change in Colombia, and merge activities for a more complete understanding of ecological process and drivers; Discuss the formation of an emerging network/platform on open ecosystem science.

An open-science network for integrated biodiversity and ecosystem research in Colombia
Björn Reu, Universidad Industrial de Santander; Lina Estupiñán, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Maria Londono, Instituto Alexander von Humboldt

Towards an Earth System Data Cube for Colombia: Current status and potential
Lina Estupiñán, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Miguel Mahecha, Max Planck Institute for Biogeochemistry; Fabian Gans, Max Planck Institute for Biogeochemistry; Victor Gutierrez-Velez, Temple University; Maria-Cecilia Londoño, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; German Poveda, National University of Colombia, Medellin; Björn Reu, Universidad Industrial de Santander; Carlos Sierra, Max Planck Institute for Biogeochemistry; EOS for Colombia Team, Multiple

Design of a Research Infrastructure for a Terrestrial Ecological Observatory System for Colombia

Juan Posada, Universidad del Rosario; Jesús Anaya, Universidad de Medellín; Dolores Armenteras, Universidad Nacional de Colombia; Lina Estupiñán, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Catalina González, Universidad de los Andes; Víctor Gutierrez, Temple University; Rodrigo Jiménez, Universidad Nacional de Colombia sede Bogotá; María Londoño, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Miguel Mahecha, Max Planck Institute for Biogeochemistry; Germán Poveda, Universidad Nacional de Colombia sede Medellín; Björn Reu, Universidad Industrial de Santander; Carlos Sierra, Max Planck Institute for Biogeochemistry

From National to Global: Building an Interoperable Network of Biodiversity Observation Systems

PJ Stephenson, IUCN SSC Species Monitoring Specialist Group

Panel discussion



12-MINUTE TALKS

ECOLOGICAL RESTORATION AND RECONSTRUCTION 2

Barahona 4
14:30-16:00

Creating islands within islands using invasive species exclusion fencing ecosystem restoration

Lindsay Young, Pacific Rim Conservation; Eric Vanderwerf, Pacific Rim Conservation

Learning from the devil insights into animal-centric habitat restoration from Tasmania, Australia

Rowena Hamer, University of Tasmania; Christopher Johnson, University of Tasmania; Menna Jones, University of Tasmania

Reintroducing Fish and Wildlife Populations to Achieve Conservation Goals

Paul Angermeier, Virginia Tech; David Jachowski, Clemson University; Joshua Millspaugh, University of Montana; Rob Slotow, University of KZ-N

Reproductive Biology bedrock for conservation of threatened plants

Susheel Verma, Centre for Biodiversity Studies, Baba Ghulam Shah Badshah University Rajouri, J&K

“They look at land like a line item”: Assessing Social Ecological Barriers to Forest Restoration

Abigail Dan, University of British Columbia; Jeanine Rhemtulla, University of British Columbia

Capacity building and conservation of Mauritia swamps: A landscape level participatory approach

Jhon Infante-Betancour, YOLUKA ONG; Teddy Angarita, YOLUKA ONG; Juan Campo Kurmen, YOLUKA ONG; July Franco Quimbay, YOLUKA ONG; Camilo Herrera Molina, YOLUKA ONG

Conflict and Conservation Effects of a shifting herbivore community after civil war in Mozambique

Jennifer Guyton, Princeton University; Tyler Coverdale, Princeton University; Joshua Daskin, Princeton University; Tyler Kartzinel, Brown University; Johan Pansu, Princeton University; Robert

Pringle, Princeton University

Forest degradation and attitudes of forest dependent peoples towards local reforestation

Lauren Nerfa, University of British Columbia; Jeanine Rhemtulla, University of British Columbia

SYMPOSIUM

NEW CONSERVATION STRATEGIES TO SUSTAIN CORAL REEFS UNDER CLIMATE CHANGE

Sala 301

14:30-16:00

Kenneth Anthony, Australian Institute of Marine Science

Coral reefs are the rainforests of the sea and nature's food stores in the tropics. Their services to humanity are more valuable than most global businesses. But climate change will place unprecedented pressures on coral reefs and the values they provide to society. To sustain coral reefs and dependent people through the climate crisis will require conservation strategies that explore a broader range of approaches than usual, including radical and high-risk/high-reward options. The symposium presents contributions from conservation practitioners, scientists and other outside-the-box thinkers. The symposium explores innovative solutions that include genetic rescue, reef design, restoration, and new conservation models. 1. The new conservation challenge for coral reefs. This introduction will lay out the paradigm shifts needed and how presentations will integrate under a broader solutions framework. 2. Integrating climate risk and refuge into data-driven conservation portfolios for Indo-Pacific coral reefs. The talk will present a decision tool to support the design of climate-smart conservation plans for coral reefs. 3. Reef resilience challenges to deliver critical ecosystem services in the Coral Triangle. Talk explores the challenges and opportunities for sustaining key fisheries species and tourism values. 4. How human responses to climate change impact biodiversity. The speaker presents examples of how shifts from farming to fisheries in drought-stricken regions can degrade reef systems. Interventions are proposed that help communities adopt sustainable alternatives. 5. Reef resilience through assisted evolution – can we climate-harden the reef engineers? Talk proposes a suite of restoration techniques to increase the adaptive capacity of key coral reef species. 6. Time for triage: which reef conservation objectives do we prioritize?



Climate change will force reef managers to trade some conservation objectives off against others.

The new conservation challenge for coral reefs

Ken Anthony, Australian Institute of Marine Science

Reef resilience through assisted evolution: Can we climate-harden the reef engineers?

Line Bay, Australian Institute of Marine Science

Integrating climate risk and refuge into conservation portfolios for Indo-Pacific coral reefs

Emily Darling, Wildlife Conservation Society; Indo-Pacific Collaboration, Multiple organizations; Marie Josee Fortin, University of Toronto; Joseph Maina, Macquarie University; Timothy Mcclanahan, Wildlife Conservation Society; David Mouillot, Université Montpellier

How human responses to climate change impact biodiversity

Nikhil Advani, World Wildlife Fund

Time for triage which coral reef conservation objectives do we prioritize

Stephanie Wear, The Nature Conservancy

Panel discussion

12-MINUTE TALKS

GENETICS, EVOLUTION AND BIOGEOGRAPHY 2

Sala 302

14:30-16:00

Learning to live with cancer adaptations in Tasmanian devil facial tumor disease

Rodrigo Hamede, University of Tasmania; Paul Hohenlohe, University of Idaho; Menna Jones, University of Tasmania; Hamish McCallum, Griffith University; Ruth Pye, University of Tasmania; Manuel Ruiz, University of Tasmania; Andrew Storfer, School of Biological Sciences; Greg Woods, Menzies Institute - University of Tasmania

The past guiding the future: A decade of primate conservation genetic research in Guinea-Bissau

Maria Joana Ferreira Da Silva, Porto University (CIBIO/InBIO), CAAP and Cardiff University;

Michael Bruford, Organisms and Environment Division, School of Biosciences, Cardiff University;; Catarina Casanova, CAPP, School of Social and Political Sciences, University of Lisbon, Portugal; Tania Minhós, IGC, Instituto Gulbenkian de Ciência, Oeiras, Portugal

Spatial Conservation Prioritization of Biodiversity Spanning the Evolutionary Continuum

Silvia Carvalho, CIBIO/InBIO; Mafalda Barata, CIBIO/InBIO; Salvador Carranza, Institute of Evolutionary Biology, CSIC-Universitat Pompeu Fabra; Craig Moritz, Research School of Biology and Centre for Biodiversity Analysis, The Australian; Ana Portela, CIBIO/InBIO; Hugh Possingham, The University of Queensland; Pedro Tarroso, CIBIO/InBIO; Guillermo Velo-Antón, CIBIO/InBIO

Linking soil microbial communities with vegetation zone and plant genetic diversity in mangroves

Hayley Craig, The University of Manchester; Jennifer Rowntree, Manchester Metropolitan University

Fire effects on composition diversity and phylogenetic structure of semi-arid bird communities

Zoe Reynolds, Australian National University

Damming fragments species ranges and heightens freshwater fish extinction risk

Juan Carvajal-Quintero, Institute of Ecology A.C. (INECOL); Juliana Delgado, The Nature Conservancy; Stephanie Januchowski-Hartley, Paul Sabatier University; Céline Jézéquel, Muséum National d'Histoire Naturelle; Javier Maldonado-Ocampo, Pontificia Universidad Javeriana; Pablo Tedesco, Université Paul Sabatier Toulouse

12-MINUTE TALKS

ENVIRONMENTAL LAW, GOVERNANCE AND POLICY

Sala 303

14:30-16:00

Three cheap ways of reducing forest carbon emissions in tropical Asia

Victoria Graham, James Cook University; Oscar Venter, University of Northern British Columbia



Assessing the avoided deforestation effects of Protected Area Mosaics in the Amazon

Melissa Arias, Yale University - University of Sao Paulo

Legal reversals of protected areas in Brazil via downgrading, downsizing, and degazettement (PADDD)

Shalynn Pack, Round River Conservation Studies

A comparative case study in social vulnerability small-scale seagrass fisheries in the Philippines

Angela Quiros, University of California Santa Cruz; Michael Beck, The Nature Conservancy

Comparing Impacts of Three Payments for Watershed Services Programs in Chiapas, Mexico

Kelly Jones, Colorado State University

Asking Questions for Compliance Monitoring Insights from Artisanal Fishers in Nicaragua

Mark Gibson, Michigan State University; Meredith Gore, Michigan State University

The impact of hunting regulation during the Brazil nut harvest in the Bolivias Manuripi Reserve

Sophia Espinoza, Conservation Strategy Fund; Jorge Maldonado, Universidad de los Andes

Can we use social media data to understand tourists' preferences for biodiversity in protected areas?

Anna Hausmann, University of Helsinki; Enrico Di Minin, University of Helsinki; Vuokko Heikinheimo, University of Helsinki; Atte Moilanen, University of Helsinki; Rob Slotow, University of Kzn; Henriikki Tenkanen, University of Helsinki; Tuuli Toivonen, University of Helsinki

A Just and Blue Earth: Systematic Review Findings Linking Fishery Declines and Social Injustices

Jessica Sparks, University of Denver

Bias and Perspectives of Insect Conservation: A European scale analysis

Camila Leandro, UPVM3 - CEFE

Do Alternative Livelihoods Reduce Threats to Biodiversity Conservation? A Nepal Case Study

Karl Wurster, USAID; Carolyn O'Donnell, USAID; Shant Raj Jnawali, WWF-Nepal; Netra Sharma Sapkota, USAID; Gill Shepherd, IUCN; Karolyn Upham, USAID

Exploring attitudes and preferences towards species at risk in British Columbia

Alejandra Echeverri, Institute for Resources, Environment, and Sustainability. UBC; Kai Chan, UBC; Jiaying Zhao, UBC, Department of Psychology

12-MINUTE TALKS

SOCIAL SCIENCE FOR CONSERVATION 2

Sala 304
14:30-16:00

Sentiment Analysis in Conservation: More facts, less gut feeling

Margreet Drijfhout, La Trobe University; Peter Green, La Trobe University; Dave Kendal, University of Melbourne; Dany Vohl, Swinburne University of Technology

Capacity gaps hinder the performance of marine protected areas globally

David Gill, Conservation International/George Mason University

SYMPOSIUM

CONSERVATION IN AN URBANIZING WORLD: CONSERVATION SCIENCE AND APPLICATION IN URBAN SYSTEMS

Sala 103
17:00-18:30
Travis Gallo, Urban Wildlife Institute, Lincoln Park Zoo

Urbanization has significant effects on global biodiversity through increased demands for natural resources, landscape modifications, and habitat alterations. However, the science and practice of urban conservation is not limited to conserving species and habitats, but also encompasses socio-economic issues, human values, and environmental aesthetics.

As urbanization and its consequences for biodiversity magnify, understanding the nexus between ecology, social science, and urban planning is more important than ever. This symposium will highlight some of the world's most state-of-the-art ecological, social, and policy-relevant research in the field of urban ecology. Presentations will cover applied topics such as the functionality of urban green spaces, multi-city approaches to urban wildlife conservation, and exploring the relationship between urban green space and human well-being. This symposium is intended to complement the symposium "Conservation in an Urbanizing World: How is urbanization changing the science and practice of conservation?" Together these symposiums will facilitate an informative conversation about urban conservation such that the audience can feel better equipped to continue the conversation in their professional and personal lives. Therefore, this symposium will conclude with an interactive panel-audience discussion about the next frontiers in conserving biological diversity in an urbanizing world.

What is a coyote? The discourse of human-coyote interactions in an urban area

Megan Draheim, Virginia Tech Center for Leadership in Global Sustainability; Susan Crate, George Mason University; Edward Christien Parsons, George Mason University

If you build it will they come? Mammal diversity and metacommunity dynamics in urban green spaces

Travis Gallo, Urban Wildlife Institute, Lincoln Park Zoo; Mason Fidino, Urban Wildlife Institute; Elizabeth Lehrer, Lincoln Park Zoo; Seth Magle, Lincoln Park Zoo

Control of Corvids in urban environment: Applications in human-wildlife conflict management

László Kövér, University of Debrecen; Lajos Juhász, University of Debrecen; Szabolcs Lengyel, Centre for Ecological Research; Petra Paládi, University of Debrecen; Dávid Tóth, University of Debrecen; Norbert Tóth, University of Debrecen

Crossing boundaries to sustain freshwater ecosystems, services, and values in an urbanizing world

Stephanie Januchowski-Hartley, Laboratoire Evolution et Diversité Biologique, Université Paul Sabatier; Céline Jezequel, Institut de

Recherche pour le Développement, Université Paul Sabatier; Sebastian Martinuzzi, University of Wisconsin Madison; Pablo Tedesco, Institut de Recherche pour le Développement, Université Paul Sabatier

Urban Wildlife and Human Disease: Using Landscape Genetics of Rats to Inform Public Health in Brasil

Jonathan Richardson, Providence College

Panel discussion

KNOWLEDGE CAFÉ

TECHNOLOGY, NETWORKS, AND THE CITY

Hall de exposiciones
17:00-18:30

Human dimensions of conservation technologies

Nicole Sintov, Ohio State University; Viviane Seyranian, California State Polytechnic University - Pomona

Knowledge Cafe developing a modern research agenda for urban conservation

Travis Gallo, Urban Wildlife Institute, Lincoln Park Zoo; Lauren Bailey, Society for Conservation Biology; Megan Draheim, Virginia Tech Center for Leadership in Global Sustainability; László Kövér, University of Debrecen; Jayshree Vencatesan, Care Earth Trust; Marit Wilkerson, USAID

Building a Network of Conservation Scientists Engaged in Environmental and Social Activism

Cynthia Malone, American Museum of Natural History

Thinking outside the Network: Broadening participation in conservation technology

Alasdair Davies, ZSL; Eric Fegraus, Conservation International; Stephanie O'Donnell, Fauna & Flora International

On and off the beaten track: Can early-career conservationists get better career guidance?

Stuart Paterson, Fauna & Flora International



Creating Connections among SCB Chapters: A dialogue on what works in local chapters

Andrew Gregory, Bowling Green State University; Rebecca McCafrey, USGS

The Taboo Dialogue: Indigenous peoples, conservation and land rights

John Goedschalk, Conservation International; Gwendolyn Smith, ATTUNE

Next generation citizen science amplifying the impact

Nina Hadley, Adventure Scientists

The urban challenge: Latin American cities as hotspots of opportunities for biodiversity conservation

Juan Amaya-Espinel, Pontificia Universidad Javeriana; Juliana Montoya, Instituto Alexander von Humboldt

Conservation in troubled times: A call to USA government conservation community

Marit Wilkerson, USAID

12-MINUTE TALKS

WILDLIFE TRADE

Secretaría General
17:00-18:30

Finding Politically Feasible Conservation Strategies: The Case of Wildlife Trafficking

Timothy Haas, Lubar School of Business, Univ. of Wisconsin-Milwaukee, United States

Global Wildlife Trade and Risk of Importing Infectious Pathogens into the United States

Elizabeth Daut, SESYNC (Socio-Environmental Synthesis Center)

Comparisons of the trading network among different taxa listed in CITES Appendix II

Ting-Chun Kuo, University of British Columbia; Amanda Vincent, Univ of British Columbia;

Trade of marine turtles in the Gulf of Venezuela: One problem, three nations

Hector Barrios-Garrido, Mr; Ninive Espinoza-Rodriguez, Grupo de Trabajo en Tortugas Marinas

del Golfo de Venezuela; Mark Hamann, James Cook University; Maria Montiel-villalobos, Instituto Venezolano De Investigaciones Cientificas (ivic); Jordano Palmar, Grupo de Trabajo en Tortugas Marinas del Golfo de Venezuela; Daniela Rojas-Cañizales, Grupo de Trabajo en Tortugas Marinas del Golfo de Venezuela; Natalie Wildermann, James Cook University

The hidden face of parrot poaching: Local demand of pets largely outnumbers trade on parrots

Jose Tella, CSIC

Extent of the impact of the Chinese wildlife trade on the worlds wildlife

Olivier Boissier, Unemployed; Simon Ducatez, University of Sydney, School of Biological Sciences, NSW 20906, Australia

Into Darkness: A journey through wildlife trafficking in India

Rahul Kumar, Bhavan's College

SYMPOSIUM

LAND ACQUISITIONS FOR CONSERVATION RECONCILING PLANS WITH EMPIRICAL REALITY

Arsenal
17:00-18:30
Christoph Nolte, Boston University

Land acquisitions are a key instrument in the conservationist's toolbox. Over the past decades, organizations and individuals have spent billions of dollars to protect habitats through the purchase or donation of full or partial land rights. The role of acquisitions for conservation is bound to increase, as climate change pushes species outside existing reserves while public park creation has stalled in many countries. Scientists have made significant progress in optimal site selection and policy design. Yet, real-life acquisitions seldom occur in "optimal" ways. Discrepancies between planning and reality are documented, but scholars rarely explain why they exist and persist. Rigorous assessments of the drivers and impacts of land acquisitions are key to understanding where acquisitions occur, why, and how they can be improved. This symposium brings together empirical quantitative

analyses illuminating key aspects of the practice of land acquisition in six countries. Questions include: how and why do patterns of land acquisitions diverge from identified priorities? How can key attributes of parcels, landowners, and donors be incorporated into acquisition strategies? How do incentive policies affect rates and patterns of private land protection? Under what circumstances is buying land more cost-effective than borrowing land? Insights will inform discussions on how to narrow gaps between conservation planning theory and practice.

Land acquisitions for conservation: Drivers of spatial allocation in the USA Chile and Colombia

Christoph Nolte, Boston University

Identifying socio-economic drivers of land acquisitions over a century in California

Maria Santos, Utrecht University

Social and Environmental Predictors for the Spatial Distribution of Conservation Easements

Paul Leonard, Clemson University; Robert Baldwin, Clemson University

Cost-effectiveness of buying vs. borrowing land in a Natura 2000 site in Northern Germany

Oliver Schöttker, Brandenburg University of Technology Cottbus-Senftenberg; Frank Wätzold, Brandenburg University of Technology Cottbus-Senftenberg

Who will conserve? Understanding stakeholders to improve prioritization of private land conservation

Elizabeth Law, University of Queensland; Peter Arcese, University of British Columbia; Amanda Rodewald, Cornell Lab of Ornithology; Richard Schuster, University of British Columbia; Kerrie Wilson, University of Queensland

Comparing acquisition strategies for private land conservation revolving funds

Mathew Hardy, RMIT University; Sarah Bekessy, RMIT University; James Fitzsimons, The Nature Conservancy; Ascelin Gordon, Victoria

12-MINUTE TALKS

CONSERVATION THROUGH PARTNERSHIPS

Barahona 1
17:00-18:30

Conservation Benefits and Challenges of Urban Sacred Natural Sites

Alison Ormsby, University of North Carolina Asheville; Wendy Jackson, New Zealand Department of Conservation

A pan-neotropical analysis of hunting preferences

Ciara Stafford, University of Manchester; Richard Preziosi, Manchester Metropolitan University; William Sellers, University of Manchester

The full and effective participation of indigenous peoples in forest monitoring for REDD+ in Panama

Javier Mateo-Vega, McGill University and Smithsonian Tropical Research Institute; Catherine Potvin, McGill University and Smithsonian Tropical Research Institute

Campesino Hunting Knowledge: Cultural Significance and Conservation Implications

Michael Petriello, Texas A&M University; Dr. Amanda Stronza, Texas A&M University, Co-Director of the NSF-IGERT Applied Biodiversity Science Program, Director of the Ecoexist Project

Ethnobotanical study of medicinal plants used to treat complex multifactorial diseases (Ifumbi)

Samuel Nshutiyayesu, University of Rwanda; Rosine Mukabarungi, University of Rwanda

Integrate people perception of cultural ecosystem services into nature conservation management

Claudia Canedoli, University of Milano Bicocca; Craig Bullock, UCD School of Geography, Planning and Environmental Policy, University College D; Marcus Collier, UCD School of Geography, Planning and Environmental Policy, University College D; Deirdre Joyce, UCD School of Geography, Planning and Environmental Policy, University College D;



Emilio Padoa-Schioppa, Department of Earth and Environmental Sciences, University of Milano-Bicocca, Mi

A continent-wide participatory strategic situation analysis of ecosystems and conservation

Stefan Kreft, Eberswalde University for Sustainable Development; Peter Hobson, Writtle College; Pierre Ibisch, Centre for Economics and Ecosystem Management, Eberswalde Univ.f.Sustain. Developm.

12-MINUTE TALKS

CONSERVATION CONFLICTS 3

Barahona 2
17:00-18:30

Framework to assess ecological and anthropogenic drivers of carnivore decline in modified landscapes

Nicolas Gálvez, Pontificia Universidad Católica de Chi; Zoe Davies, Durrell Institute of Conservation and Ecology (DICE); Gurutzeta Guillera-Arroita, University of Melbourne; David Macdonald, Univ of Oxford; Elke Schüttler, 4Department of Conservation Biology, UFZ - Helmholtz Centre for Environmental Re; Freya St. John, Durrell Institute of Conservation and Ecology

How Just? Defining and Measuring Social Equity in Conservation

Rachel Friedman, University of Queensland; Nathan Bennett, University of British Columbia; Christopher Ives, University of Nottingham; Elizabeth Law, University of Queensland; Jessica Thorn, Colorado State University; Kerrie Wilson, University of Queensland

Depredation on livestock by brown bears in the Pyrenees France: A spatiotemporal analysis

Adrienne GASTINEAU, UPMC, CESCO, UMR 7204 MNHN-CNRS-UPMC; Jean-Baptiste Mihoub, CESCO, UMR 7204 MNHN-CNRS-UPMC; Pierre-Yves Quenette, Office National de la Chasse et de la Faune Sauvage; Alexandre Robert, Museum National D'histoire Naturelle; Francois Sarrazin, UPMC, CESCO, UMR 7204 MNHN-CNRS-UPMC,; Jérôme Sentilles, Office National de la Chasse et de la Faune Sauvage

Bringing modern science to improve coexistence between pumas and people in Chile

Omar Ohrens, University of Wisconsin-Madison; Adrian Treves, University of Wisconsin-Madison

Cultivation of medicinal and aromatic plants has potential to decrease human-elephant conflicts

Eva Gross, Awely; Nolwenn Drouet-Hoguet, Awely, Wildlife and People, France; Jürgen Gross, Julius Kühn-Institut, Dossenheim, Germany; Rachel McRobb, Conservation South Luangwa, Zambia; Naresh Subedi, National Trust for Nature Conservation, Nepal

Encroachment, illicit extraction, and avian biodiversity in the Manas Tiger Reserve (India)

Dhananjaya Katju, Texas A&M University

Interpreting science in conflicts over raptor management: A tale of strategic use and trust issues

Isla Hodgson, University of Aberdeen

12-MINUTE TALKS

CONSERVATION IN A CHANGING CLIMATE 2

Barahona 3 (livestreaming and live translation)
17:00-18:30

Body size temporal change: The effect of climate anomalies on temperate songbirds

Nicolas Dubos, MNHN; Olivier Dehorter, MNHN; Manon Ghislain, MNHN; Pierre-Yves Henry, MNHN; Romain Julliard, MNHN; Isabelle Le Viol, Mnhn; Alexandre Robert, Museum National D'histoire Naturelle; Céline Teplitsky, CEFE

Endemism hotspots and climatic refugia: Implications for conservation

Reed Noss, Florida Institute for Conservation Science; Susan Harrison, Envir Sci & Policy;

Climate change adaptation for mammals challenged by asymmetric transboundary protection

Daniel Thornton, Washington State University; Lyn Branch, Dept Wildlife Ecology & Conservation, University of Florida; Rosmary Nerey Rodriguez, University of Florida



**Prioritizing connectivity to facilitate range shifts:
A new conservation science challenge**

Annika Keeley, UC Berkeley; Patrick Huber, UC Davis; Adina Merenlender, UC Berkeley

Putting connectivity science into practice for climate resilient landscapes

Adina Merenlender, Hopland Res & Ext Ctr; Nicole Heller, Peninsula Open Space Trust; Annika Keeley, UC Berkeley

Community change across space and time in an Andean high elevation Ecuadorian National Park

Boris Tinoco, University of Azuay

When it's too hot to eat: Changing climate and landscapes affect diet and demography of moose

James Forester, University of Minnesota; John Berini, University of Minnesota

12-MINUTE TALKS

DESERTS AND SEMI-ARID LANDSCAPES

Barahona 4
17:00-18:30

Bat diversity, water quality, and pastoralists in the northern Namib Desert

Theresa Laverty, Colorado State University; Joel Berger, Colorado State University

Species distribution modelling of *Ivesia webberi* A. Gray in Nevada and California

Temitope Borokini, University of Nevada, Reno, United States; Thomas Dilts, University of Nevada Reno; Peter Weisberg, University of Nevada Reno

Fragmentation revisited changing interactions with barriers in a bighorn sheep metapopulation

Clinton Epps, Oregon State University; Rachel Crowhurst, Oregon State University; Brandon Nickerson, Oregon State University

School monitors bringing nature into the classroom

Osvaldo Ramirez Bravo, Benemérita Universidad Autónoma de Puebla

Bee and bird diversity flower visitors in a semiarid low-input perennial agroecosystem in Mexico

Mónica Riojas-López, Universidad de Guadalajara-CUCBA; Isis Díaz-Herrera, Universidad de Guadalajara-CUCBA; Hugo Fierros-López, Universidad de Guadalajara-CUCBA; Eric Mellink, Centro de Investigación Científica y Educación Superior de Ensenada

Trees not Patch Size Drive Bird Community in a Low-input Agro-ecosystem in an Anthropized Landscape

Eric Mellink, Centro de Investigación Científica y Educación Superior de Ensenada; Melinda Cárdenas-García, Centro de Investigación Científica y Educación Superior de Ensenada; Mónica Riojas-López, Universidad de Guadalajara-CUCBA

Does Greater Sage-Grouse Habitat Quality Increase likelihood of Lek Extirpation?

Beth Fitzpatrick, University of Wyoming; Melanie Murphy, University of Wyoming

12-MINUTE TALKS

GRASSLANDS AND SAVANNAS

Sala 301
17:00-18:30

The armadillo conservation program in the Colombian Llanos: Combining science education and policy

Mariella Superina, CONICET; Alejandra Cortés Duarte, Fundación Omacha; Fernando Trujillo, Fundación Omacha

Resolving a Conservation Dilemma: Vulnerable Lions Eating Endangered Zebras

Margaret Kinnaird, WWF-International; Timothy O'Brien, Wildlife Conservation Society

Biodiversity thresholds for bird species at the South America Savanna

Paula Martins, Universidade Federal de Mato Grosso do Sul; Jose Ochoa-Quintero, Universidade Federal de Mato Grosso do Sul; Guilherme Dalponti, Universidade Federal de Mato Grosso do Sul; Claudenice Faxina, Universidade Federal de Mato Grosso do Sul; Leticia Garcia, Universidade

Federal de Mato Grosso do Sul; Mauricio Godoi, Universidade Federal de Mato Grosso do Sul; Jean Metzger, Universidade de São Paulo; Jose Morante-Filho, Universidade Estadual de Santa Cruz

The Domain Awareness System: Modernizing protected area management with cutting-edge technology

Kathleen Gobush, Vulcan Inc and University of Washington; Ted Schmitt, Vulcan; Jake Wall, Save the Elephants

The managed metapopulation approach for Cheetah conservation

Vincent Van Der Merwe, Endangered Wildlife Trust

In pursuit of sustainability – exploring barriers and opportunities for sustainable cashmere production in Mongolia

Zara Morris-Trainor, University of Aberdeen; Charudutt Mishra, Nature Conservation Foundation; Michelle Pinard, U Aberdeen, Plant & Soil; Steve Redpath, University of Aberdeen

Using the nexus between Traditional Knowledge and Western Science to Advance Conservation Globally

Cristina Eisenberg, Earthwatch Institute; Mike Bruised Head, University of Lethbridge; Kansie Fox, Kainai Environmental Protection Agency; Leroy Little Bear, University of Lethbridge

Assessing the assessments: Evaluation of four impact assessment protocols for invasive alien species

Assaf Shwartz, Technion - Israel Institute of Technology; Anne Turbe, Independent researcher; Diederick Strubbe, CMEC Natural History Museum of Denmark, University of Copenhagen, Denmark

Testing the hypothesis of Centinelan extinction in Ecuadors threatened coastal forests

Nigel Pitman, The Field Museum; Kenneth Feeley, University of Miami; Dawson White, University of Illinois Chicago

What is the appropriate null hypothesis for extinction?

Kevin Smith, Davidson College

Extinction risk assessment of marine fishes of Colombia 2017

Andrea Polanco, Invemar; Arturo Acero, Universidad Nacional de Colombia; Juan Caldas, CI; Luis Chasqui, Invemar; Paola Mejía, Fundación Squalus; Andrés Navia, Fundación Squalus; Luis Zapata, WWF

Exotic species pathways strategies to move forward in their control and identification

Maria Baptiste, Instituto Alexander von Humboldt; Lina Garcia, Instituto Alexander von Humboldt; Carolina Castellanos, Instituto Alexander von Humboldt

12-MINUTE TALKS

RISK ASSESSMENT AND UNCERTAINTY

Sala 302
17:00-18:30

Using evidence to inform conservation evidence-based decisions or fact-supported beliefs

Sana Bau, University of Melbourne

Bird extinctions and drivers of change: San Antonio 100 years later and beyond

Ruben Palacio, Fundacion Ecotonos; Gustavo Kattan, Pontificia Universidad Javeriana - Cali; Stuart Pimm, Duke University

12-MINUTE TALKS

DIVERSE CONSERVATION INSIGHTS

Sala 303
17:00-18:30

How fish comes to the table? A view of food ecosystem service associated with fishing in Colombia

María Helena Olaya Rodríguez, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Alexi Cusva, Universidad Nacional de Colombia; María Doris Escobar Lizarazo, Universidade Federal do Amazonas; Carlos A. Lasso, Instituto de investigación de recursos biológicos Alexander von Humboldt; Maria Londono, Instituto Alexander von Humboldt, Jorge Velasquez, Instituto Humboldt



Radar remote sensing based forest observatory supporting indigenous communities, Colombian Amazon

Marcela Quiñones, Sarvisión; Carolina Gil, ACT-Colombia; Brian Hettler, ACT-Washington; Claudia Huertas, ACT-Colombia; Santiago

Yelloweye and Quillback rockfish abundance and benthic habitat parameters in British Columbia

Mauricio Carrasquilla, University of Victoria; Dana Haggarty, Fisheries and Oceans Canada; Francis Juanes, University of Victoria; Lynne Yamanaka, Fisheries and Oceans Canada Palacios, ACT-Colombia

Exploring Biodiversity Conservation through Community-based Ecotourism Development in Surama, Guyana

Paulette Bynoe, University of Guyana

Community Forestry: A New Model Gorilla Conservation in the Eastern DR Congo

Sarah Tolbert, Strong Roots

Understanding Roads and their Buffer Areas to Evaluate the Creation of Biological Corridors

Santiago Espinosa, Universidad Autónoma de San Luis Potosí; Pablo Medrano, Pontificia Universidad Católica del Ecuador; Gorki Ríos, Pontificia Universidad Católica del Ecuador

Biotic homogenization in plant communities revealed by citizen science monitoring

Gabrielle Martin, National Museum of Natural History; Nathalie Machon, National Museum of Natural History; Nathalie Machon, National Museum of Natural History

12-MINUTE TALKS

ALIEN AND INVASIVE SPECIES

Sala 304
17:00-18:30

A Social Influence Intervention: Enhancing Resident Cooperation to Combat Invasive Species

Rebecca Niemiec, Stanford University Emmett Interdisciplinary Program in Environment and Resources; Robb Willer, Stanford University; Nicole Ardoin, Stanford University; Frances Kinslow Brewer, Big Island Invasive Species Committee Pacific Cooperative Studies Unit

Using control theory to determine the impact of invasions on the manageability ecological networks

Fernando Cagua, University of Canterbury; Daniel Stouffer, University of Canterbury; Kate Wootton, University of Helsinki

Unleashing the Devil in the Garden of Eden

Vince Scoleri, University of Tasmania

Optimal management in the face of uncertainty: Controlling American mink in Scotland

Ewan McHenry, University of Aberdeen; Thomas Cornulier, University of Aberdeen; Xavier Lambin, University of Aberdeen; David Elston, Biomathematics and Statistics Scotland

Predictability of introduced species establishment

Gian Marco Palamara, University of Zürich

Multiple Spatially Distinct Introductions in an Invasive Marine Species

Eleanor Bors, Woods Hole Oceanographic Institution

Restoration of a blackberry invaded unique forest in Galapagos

Jacqueline Rodríguez, Charles Darwin Foundation





WEDNESDAY SESSIONS

ICCB
2017
CARTAGENA, COLOMBIA • JULY 23-27, 2017
Insights for sustaining life on Earth



MONDAY 24 JULY 2017

M



TUESDAY 25 JULY 2017

Tu



WEDNESDAY 26 JULY 2017

W



THURSDAY 27 JULY 2017

Th





WEDNESDAY 26 JULY 2017

SCHEDULE AT A GLANCE

LOBBY LEVEL						LEVEL 2B								LEVEL 3				
Registration	Comercial Area	BO	Childcare	Press	Networking	BO	Office	BO	Plenary	BO	BO	BO	BO	BO	BO	BO	BO	
	Portico Registro	Claustro de las Animas	Sala 103	Sala 102	Sala 101	Hall de exposiciones	Secretaria General	Sala VIP II	Arsenal	Gran Salon Barahona	Barahona 1	Barahona 2	Barahona 3 (livestreaming and translation room)	Barahona 4	Sala 301	Sala 302	Sala 303	Sala 304
Capacity in Auditorium			70	20	30		130		130	1500	250	283	386	360	70	100	100	100
7:30	CCC Opening																	
8:00																		
8:30																		
9:00	Plenary 3: Arun Agrawal																	
9:30	Coffee																	
10:00			Symposium 167: Conserving Cotton-top Tamarins in Colombia: An Integrated and Strategic Approach in Saving a Species				Symposium 196: More People Come to The Ocean: Data on Inclusivity in Marine Conservation Science		Contributed talks 43: Wildlife Physiology and disease		Speed talks 9 Marine conservation	Speed talks 10 Novel methods for conservation biology	Speed talks 11 Monitoring and remote sensing	Speed talks 12 Protected areas	Symposium 185: Providing solutions to current conservation challenges with novel genetic approaches	Symposium 166: Red Lists of Ecosystems in Latin America From national efforts to a regional strategy	Symposium 209: Wildlife Crime Bridging the Gap Between Conservation Science and Criminology Part I	Symposium 186: Using interdisciplinary frameworks to address coral reef conservation
10:30																		
11:00																		
11:30			Contributed talks 36: Ecosystem function and services 1				Contributed talks 35: Impact evaluation		Contributed talks 40: Biodiversity inventory and monitoring 2		Contributed talks 38: Freshwater conservation 1	Contributed talks 56: Savanna and Temperate Grasslands	Contributed talks 37: Conservation in the matrix	Contributed talks 41: Population dynamics and modelling	Contributed talks 42: Conservation planning and prioritization 1	Symposium 213: The future of conservation one movement or many	Symposium 30: Wildlife Crime Bridging the Gap Between Conservation Science and Criminology Part II	Symposium 226: Lost in translation: Navigating complex policy processes to deliver conservation outcomes
12:00																		
12:30																		
13:00					SCB Chapter meeting													
13:30			W 248 Faith-based conservation 2.0: Exploring new directions in theory policy and practice				W 155 Training Conservation Leaders Lessons for Academic Professional Education in Adaptive Management		W 107 Tools for Fostering Inclusive Conservation Science Communication		W 126 The role and value of cetaceans to ecosystem functioning	W 152 Sharing Lessons from Impact Evaluation of Commodities Certification schemes in Southern Chile	W 55 Data rich but insight poor? How to use data science to empower management and conservation	W 188 Protected area downgrading, and degazettement (PADDD): science and policy implications	W 202 Partnerships for Conservation Governments private sector donors communities academia and NGOs	W 111 Youth Advocates and Indigenous Knowledge: Addressing Critical Conservation Challenges	W 88 What editors and reviewers are (not) expecting to find in your submission	W 204 Adding value to conservation policy: Work of SCB's regional sections at the science-policy interface
14:00		Lunch																
14:30			Contributed talks 44: Ecosystem function and services 2			Knowledge Café 4: Threatened species management and recovery	Symposium 176: More Problems Come to The Ocean: Emerging Issues in Marine Conservation Science		Symposium 172-206 Status of bushmeat exploitation and trade implications for biodiversity conservation		Contributed talks 46: Freshwater conservation 2	Symposium 220: Cost-effective tools to support conservation decision-making for Protected Areas in Latin America	Contributed talks 45: Conservation practice	Symposium 179: Biodiversity knowledge management for flora conservation in megadiverse countries	Symposium 114: Conservation Planning where is it now what is its potential and how do we get there	Symposium 175: Adapting to climate change effects at extreme latitudes and elevations	Symposium 225: Illegal Wildlife Trafficking: finding synergies to combat a multifaceted threat to biodiversity	
15:00																		
15:30																		
16:00		Coffee+Posters session 3: Conservation in Latin America																
16:30																		
17:00									Public Forum: Postconflict and Conservation in Colombia: Challenges and Opportunities									SCB Social Sciences WG
17:30																		
18:00																		
18:30	END OF THE DAY																	



WEDNESDAY SESSIONS

SYMPOSIUM

CONSERVING COTTON-TOP TAMARINS IN COLOMBIA: AN INTEGRATED AND STRATEGIC APPROACH IN SAVING A SPECIES

Sala 103

10:00-11:30

Katie Feilen, Disney's Animal Kingdom; Anne Savage, Disney's Animal Kingdom

Since 1987, Proyecto Tití (PT) has used a multi-dimensional approach with scientific research, community programs, education, and forest conservation to reduce deforestation and the illegal pet trade. Addressing the needs of communities, PT develops innovative solutions that increase the level of local partnerships and position the cotton-top tamarin (ctt) as a flagship species for conservation in Colombia, which has led to a successful program that is reversing the decline of this species in the wild. Our long-term scientific studies have provided the first information on social organization, infant development, feeding ecology, reproductive biology, and how habitat changes have influenced this species in the wild. Through our Tití Ventures program, we have developed programs that reduce the need to extract forest resources, are positively impacting the environment, and developing economic alternatives for communities. Our education programs work to engage students from elementary thru secondary school in activities that promote the conservation of ctt and program evaluations have shown that knowledge and attitudes have positively changed as we develop the next generation of

environmental stewards. However, given the dramatic reduction in forest coverage in Colombia, efforts to conserve some of the last remaining forest strongholds for ctt are critical. We have worked in partnership to form three protected areas and developed restoration and reforestation efforts. These combined efforts have effectively helped us to determine that the current population of ctt has remained stable for the last five years, a remarkable accomplishment given the increasing pressures of human population growth and agricultural expansion in Colombia.

Understanding how biology of cotton-top tamarins informs the conservation of the species

Katie Feilen, Disney's Animals, Science & Environment; Juan Carlos Barrios, Fundación Proyecto Tití; German Emeris, Fundación Proyecto Tití; Francy Forero, Fundación Proyecto Tití; Rosamira Guillen, Fundación Proyecto Tití; Felix Medina, Fundación Proyecto Tití; Anne Savage , Disney's Animal Kingdom; Luis Soto , Fundación Proyecto Tití

Evaluating the Impact of Conservation Education Programs on Knowledge, Attitudes, and Behaviors

Johanna Vega Abello, Fundación Proyecto Tití; Leysthen Díaz, Fundación Proyecto Tití; Katie Feilen, Disney's Animals, Science and Environment; Rosamira Guillen, Fundación Proyecto Tití; Johana Pasion, Fundación Proyecto Tití; Anne Savage, Disney's Animal Kingdom; Katherine Torregroza, Fundación Proyecto Tití



**Creating Environmental Entrepreneurs:
Developing Alternatives to Forest Resource
Extraction**

Anne Savage, Disney's Animal Kingdom;
Carolina Chinchilla, Fundacion Proyecto Titi;
Rosamira Guillen, Fundacion Proyecto Titi

**The Importance of Adaptive Management in
Conservation**

Rosamira Guillen, Fundacion Proyecto Titi; Katie
Feilen, Disney's Animals, Science & Environment;
Anne Savage, Disney's Animal Kingdom; Armando
Valdes-Velasquez, Foundations of Success/Cayetano
Heredia University

**Developing effective tropical dry forest
protection and restoration programs in
Colombia.**

Juan Barrios, Fundacion Proyecto Titi; Cristal
Ange, Fundacion Herencia Ambiental Caribe;
Nelson De La Rosa, Santuario de Fauna y Flora Los
Colorados; Katie Feilen, Disney's Animals, Science &
Environment; Rosamira Guillen, Fundacion Proyecto
Titi; Gina Rodriguez, Fundacion Ecosistemas Secos
De Colombia; Anne Savage, Disney's Animal
Kingdom;

Panel discussion

SYMPOSIUM

**MORE PEOPLE COME TO THE
OCEAN: DATA ON INCLUSIVITY IN
MARINE CONSERVATION SCIENCE**

Secretaría General
10:00-11:30
Clare Fieseler, UNC Chapel Hill

Science is inherently a hierarchical community but it doesn't follow that access to conservation science, dialogue and professional opportunities should be restricted to the same organizational structure. It is well-documented that diversity and inclusivity improves the quality of scientific research. If our conservation science spaces are inaccessible, then the work that we do to support Earth's biodiversity will suffer as well. At a time when societies, such as the Society for Conservation Biology, are working to increase diversity within membership, we must do

whatever we can to understand the state of diverse opinions, people, and spaces in our field. We must also understand where barriers exist and how they can be removed. This symposia, organized by board members of the Marine Section of the Society of Conservation Biology, aims to present new data and case studies about inclusivity trends among marine conservation science collaborations, professional engagement, and advocacy arenas. The five data-driven presentations serve as a springboard for a 15-minute discussion on how to address knowledge gaps on conservation science inclusivity with scholarly research and SCB programming. The symposium complements a subsequent symposium organized by the SCB-Marine Section, "More Problems Come to The Ocean: Emerging Issues in Marine Conservation Science."

**The State of Interdisciplinarity in Marine
Conservation Science: A multi-method review**

Clare Fieseler, UNC Chapel Hill; Steven Alexander,
National Socio-Environmental Synthesis Center;
Stockholm Resilience Center; Holly Niner, UCL;
David Shiffman, Simon Fraser University; Lindsey
Williams, University of New Hampshire

**Solving Ocean Problems through Open
Innovation: the Blue Economy Challenge**

Barbara Martinez, Conservation X Labs; Alex
Dehgan, Conservation X Labs, & Duke University

**The influence of hidden cognitive diversity on
the productivity of conservation teams**

Phillip Levin, The Nature Conservancy

**Building an Inclusive and Diverse Community to
Protect the Oceans**

María De Lourdes Martinez Estevez, UNAM,UCSC

**A Case Study of Increasing Diversity in the
American Elasmobranch Society**

David Shiffman, Simon Fraser University

**The New Code: Inclusive Safe Conservation
Science Thrives Under Codes of Conduct**

Edward Hind-Ozan, Sustainable Places Research
Institute, Cardiff University; Travis Nielsen,
Azurigen Management and Consulting Solutions
Inc.

12-MINUTE TALKS

WILDLIFE PHYSIOLOGY AND DISEASE

Arsenal
10:00-11:30

Potential human health benefits from eradication of introduced cats on islands

Luz de Wit, University of California Santa Cruz;
Donald Croll, University of California Santa Cruz;
Bernie Tershy, University of California Santa Cruz

Searching for a probiotic cure for the amphibian chytrid fungus *Batrachochytrium dendrobatidis*

Brian Gratwicke, Smithsonian Conservation Biology Institute

Fostering Orphaned American Black Bears to Wild-Caught Captive Females

Bernardo Mesa-Cruz, Virginia Tech; Marcella Kelly, Dept of Fisheries and Wildlife; Colleen Ofenbuttel, NC Wildlife Resources Commission; Michael Vaughan, Virginia Tech

Are herbivorous reef fishes functionally similar? Insights from compound-specific isotope analysis

Matthew Tietbohl, King Abdullah University of Science & Technology; Michael Berumen, King Abdullah University of Science & Technology; Leah Houghton, Woods Hole Oceanographic Institution; Thomas Larsen, Leibniz Laboratory, Christian-Albrechts-University, Kiel; Kelton McMahon, University of California, Santa Cruz; Simon Thorrold, Woods Hole Oceanographic Institution

A novel approach to tackle respiratory pathogens responsible for great ape population declines

Livia Victoria Patrono, Robert Koch Institute; Sébastien Calvignac-Spencer, Robert Koch Institute; Fabian Leendertz, Robert Koch Institute

Using in situ disease-monitoring to study a regional frog extinction in the New York City metro area

Jeremy Feinberg, Smithsonian Institution, SCBI and NMNH; Joanna Burger, Rutgers University

The role of reproduction in the susceptibility of bacterial infections in a wild bird

Camilo Escallón, Fondo Patrimonio Natural; Lisa Belden, Virginia Tech; Ignacio Moore, Virginia Tech

5-MINUTE TALKS

MARINE CONSERVATION

Barahona 1
10:30-11:30

Mangroves and Fishing Cat, who protects whom? A Case study in South India

Giridhar Malla, Wildlife Institute of India

Solutions to the Data-limited Dilemma: Using visual survey data to assess coral reef fish

Kendra Karr, Environmental Defense Fund; Rod Fujita, Environmental Defense Fund; Jake Kritzer, Environmental Defense Fund

Do edge and area effects affect ant assemblages in mangroves subjected or not to anthropization?

Pavel Dodonov, State University of Santa Cruz; Bianca Brito-Silva, State University of Santa Cruz; Jacques Delabie, State University of Santa Cruz

The manta in the room: Challenges of shark and ray conservation in the Philippines

Jo Marie Acebes (BALYENA.ORG); Patricia Dumandan (BALYENA.ORG); Jean Utzurum (Silliman University - Institute of Environmental & Marine Sciences); Diana Ma. Margarita Verdote (BALYENA.ORG)

Larval ecology and distribution of red mangrove crab *Ucides occidentalis* in Gulf of Guayaquil

José Pontón Cevallos, Escuela Superior Politecnica del Litoral

Creating inclusive spaces for sea turtle conservation in Northeast Brazil

Marisa Rinkus, Michigan State University

Exploring the role of marine protected areas in providing resilience to biological invasions

Sylvaine Giakoumi, ECOMERS, CNRS - University Nice Sophia Antipolis; Alexis Pey, University of Cote d'Azur, CNRS

Marine resource governance influences protected area establishment in Eastern Indonesia

Phillip Mohebalian, World Wildlife Fund; Ignatia Dyahapsari, World Wildlife Fund; Estradivari



Estradivari, World Wildlife Fund; Louise Glew, World Wildlife Fund-U.S.

Realignment of sea turtle isotope studies needed to match conservation priorities

Ryan Pearson, Australian Rivers Institute, Griffith University; Rod Connolly, Australian Rivers Institute, Griffith University; Michael Gagan, Research school of Earth Sciences, Australian National University; Colin Limpus, Threatened Species Unit, QLD Department of Environment and Heritage Protection; Jason van de Merwe, Australian Rivers Institute, Griffith University

5-MINUTE TALKS

NOVEL METHODS FOR CONSERVATION BIOLOGY

Barahona 2
10:30-11:30

Filling knowledge gaps on mangrove biodiversity using a novel field design that tackles the tides

Stefanie Rog, Monash University

Effective surrogates for genetic variation in conservation planning

Jeffrey Hanson, School of Biological Sciences, The University of Queensland, QLD, Australia; Richard Fuller, School of Biological Sciences, The University of Queensland, QLD, Australia; Jonathan Rhodes, School of Earth and Environmental Sciences, The University of Queensland; Cynthia Riginos, School of Biological Sciences, The University of Queensland, QLD, Australia;

Using Biogeography to Identify Cryptic Diversity and Black Holes in Biodiversity Sampling

Kyle Shaney, University of Texas, Arlington

Using eggshells to help with cryptic species management

David Vieco, Massey University

Incorporating threats into spatial conservation planning

Brendan Dillon, University of Queensland; Michael Bode, University of Melbourne; Moreno Di Marco, CSIRO; Hugh Possingham, The University of Queensland; Carlo Rondinini, Univ of Rome La Sapienza

eDNA as a way forward to improve detection of soil invertebrates: The case of dung beetles

Camila Leandro, UPVM3 - CEFE

Density-Weighted Connectivity for Landscape Management and Connectivity Conservation

Angela Fuller, Cornell University; Bistra Dilkina, Georgia Tech; Carla Gomes, Cornell University; Dana Morin, Virginia Tech; J. Royle, U.S. Geological Survey; Yexiang Xue, Cornell University

How immune genetics can inform management of European grayling (*Thymallus thymallus*)

Jana Huml, Manchester Metropolitan University; Jonathan Ellis, Plymouth University; Ed Harris, Manchester Metropolitan University; Robin Sen, Manchester Metropolitan University; Martin Taylor, University of East Anglia

Mechanistic modeling of social-ecological systems for wildlife conservation

Neil Carter, Boise State University; Andres Baeza-Castro, Arizona State University; Volker Grimm, Helmholtz Centre for Environmental Research; Simon Levin, Princeton University; Nicholas Magliocca, National Socio-Environmental Synthesis Center

5-MINUTE TALKS

MONITORING AND REMOTE SENSING

Barahona 3 (livestreaming and live translation)
10:30-11:30

What can remote sensing do for the conservation of vernal pools on Doanas aeolian sands?

Javier Bustamante, Estacion Biol Donana, CSIC; Isabel Afán, Estación Biológica de Doñana, CSIC; David Aragonés, Estación Biológica de Doñana, CSIC

Monitoring and Impact Evaluation on the Southern Chile

Priscila Molina, WWF Chile; Irina Montenegro, WWF Chile

Practical applications of imaging science for conservation biology

Ned Horning, American Museum of Natural



History's Center for Biodiversity & Conservation;
Peter Ersts, American Museum of Natural History's
Center for Biodiversity and Conservation; Yagiz
Sutcu, InfoScope LLC

New tool for monitoring land management and its biodiversity

Leonor Valenzuela, Wildlife Conservation Society; German Forero-Medina, Wildlife Conservation Society; Padu Franco, Wildlife Conservation Society; Isaac Goldstein, Wildlife Conservation Society; Johanna Gutierrez, Wildlife Conservation Society; David Pulgarin, Universidad Tecnológica de Pereira; Carlos Ríos, Wildlife Conservation Society

Relating mammal occurrence to remotely sensed ecosystem functioning in fragmented landscapes

Bibiana Gómez-Valencia, Departamento de Ecología, Genética y Evolución, Universidad de Buenos Aires; Milton Cezar Ribeiro, Universidade Estadual de Sao Paulo; Jeffrey Thompson, Consejo Nacional de Ciencia y Tecnología de Paraguay (CONACYT) & Guyra Paraguay; José Volante, Estación Experimental Agropecuaria INTA, Salta, Argentina

Monitoring that Drives Management Decisions

Peter Dratch, U.S. Fish & Wildlife Service

Importance of integrated monitoring system for sustaining biodiversity conservation

Joelisoa Ratsirarson, University of Antananarivo

Seaflower scientific expedition: Current status of sea turtles in Cayo Serrana Island (Colombia)

Karla Barrientos Muñoz, Fundación Tortugas del Mar; Cristian Ramirez Gallego, Fundación Tortugas del Mar

Improving the use of camera traps in ecology and conservation

Cagan Sekercioglu, University of Utah; Mark Chynoweth, University of Utah

5-MINUTE TALKS

PROTECTED AREAS

Barahona 4
10:30-11:30

A Global Sample to Exploring our Progress Towards Equitably Managed Protected Areas

Noelia Zafra-Calvo, Center for Macroecology, Evolution, and Climate, University of Copenhagen

New visions for the conservation of Chile's Southern Patagonia Ice Field

Fernando Iglesias Letelier, Round River Conservation Studies; Shalynn Pack, Round River Conservation Studies

Working with local people to create a new protected area in the Sierra de Famatina, Argentina

Lucila Castro, National University of Cordoba; Peter Morrison, Pacific Biodiversity Institute

How can World Heritage commitments support species conservation?

Wendy Jackson, New Zealand Department of Conservation

Evaluating effectiveness of forested Natura 2000 sites in Sweden using habitat suitability models

Grzegorz Mikusinski, Swedish University of Agricultural Sciences (SLU); Ewa Orlikowska, Swedish University of Agricultural Sciences; Jean-Michel Roberge, Swedish U. of Agric. Sciences; Johan Svensson, Swedish University of Agricultural Sciences

Spreading like wildfire: Quantifying adoption spread of privately protected areas

Carla Archibald, The University of Queensland

Reconciling biodiversity conservation and mitigation of climate change: The potential in Europe

Kerstin Jantke, Universität Hamburg; Benjamin Blanz, Universität Hamburg; Jana Müller, Universität Hamburg; Natalie Trapp, Universität Hamburg



Lessons learned from the first voluntary private land conservation program in Uruguay

Gonzalo Cortés Capano, University of Helsinki; Verónica Etchebarne Palla, Vida Silvestre Uruguay; Oscar Blumetto, Vida Silvestre Uruguay; Sabrina Cupeiro, Vida Silvestre Uruguay; Verónica Piñeiro Rodríguez, Vida Silvestre Uruguay; Mariana Ríos, Sistema Nacional de Areas Protegidas; Sofia Scanavino, Vida Silvestre Uruguay; Alvaro Soutullo, Centro Universitario Regional Este; Cecilia Suárez, Vida Silvestre Uruguay; Maria Szephegyi, Vida Silvestre Uruguay; Natalia Zaldúa, Vida Silvestre Uruguay

Unbalanced predation-net in the Tatama zone and its influenced zone: Imminent wildlife conflict

Nestor Roncancio Duque, DTAO PNN Colombia; Maria Elena Giraldo Rojas, Tatama National Natural Park; Carolina Guzman Valencia, Tatama National Natural Park; Jose Narciso Gomez, Tatama National Natural Park; Libaniel Osorio Parra, Tatama National Natural Park; Jhon Eduar Rojas Osorio, Tatama National Natural Park

SYMPOSIUM

PROVIDING SOLUTIONS TO CURRENT CONSERVATION CHALLENGES WITH NOVEL GENETIC APPROACHES

Sala 301
10:00-11:30

Melanie Murphy, University of Wyoming

Current conservation challenges in conservation biology include managing species in fragmented landscapes, maintaining or restoring functional connectivity, controlling hybridization risk, estimating critical demographic parameters for long-lived species on a time-line relevant for conservation and alleviating negative consequences of inbreeding. Interdisciplinary approaches that incorporate cutting-edge genetic tools can address these key questions in conservation science. Our symposium will address a range of conservation questions from single species conservation to landscape-level preservation of biodiversity and from genes to communities. In addition, we present

a broad-range of contemporary genetic methods that can be leveraged to address the greatest conservation challenges of our time: environmental DNA, non-invasive sampling, novel analytical approaches and next-generation sequencing. We will demonstrate how genetic approaches can inform and catalyze conservation action with local, national and international examples.

Genetic Rescue: Managing evolutionary processes with genomics

Paul Sunnucks, Monash University; Katherine Harrison, La Trobe University, DELWP; Alexandra Pavlova, Monash University

Amphibian distribution and connectivity as a function of rarity using eDNA and NGS

Melanie Murphy, University of Wyoming; William Funk, Colorado State University; Charlotte Gabrielsen, University of Wyoming; Andrew Gygli, University of Wyoming

Integrating, morphology, physiology, and genomics to identify source populations for re-introduction

William Chris Funk, Colorado State University; Maybellene Gamboa, Colorado State University; Cameron Ghalambor, Colorado State University; Scott Morrison, The Nature Conservancy; T. Scott Sillett, Smithsonian Institution Migratory Bird Center

From dung to demography: Using noninvasive methods in the conservation of elephant populations

Lori Eggert, University of Missouri; Marissa Ahlering, The Nature Conservancy; Kiristin Budd, University of Missouri

Does Greater Sage-Grouse Habitat Quality Increase likelihood of Lek Extirpation?

Beth Fitzpatrick, University of Wyoming; Melanie Murphy, University of Wyoming

Panel discussion

SYMPOSIUM

RED LISTS OF ECOSYSTEMS IN LATIN AMERICA FROM NATIONAL EFFORTS TO A REGIONAL STRATEGY

Sala 302

10:00-11:30

Irene Zager, Provita; José Ferrer Paris, Ivic

Risk assessment is an important tool for informing biodiversity conservation and represents one step in the process of setting conservation priorities for future actions, as well as informing efforts aimed at meeting international goals such as the Aichi Biodiversity Targets and the UNDP Sustainable Development Goals. The IUCN Red List of Ecosystems (RLE) proposes a unified risk model with standard, transparent and repeatable criteria for addressing the risk of ecosystem collapse equivalent to the one used by the Red List of Threatened Species. Recently several RLE assessments have been completed in Latin America through national and subnational initiatives based on locally described but internally consistent classifications. However, a broader strategy is needed in order to scale-up these efforts and advance toward a global assessment of the world's ecosystems. This regional strategy must address methodological and conceptual challenges in order to bridge the gaps that arise between countries due to uncertainties in unit definitions and delimitation, the use of alternative sources of data, and divergent approaches for the calculation of changing attributes of ecosystems. We will present the results of recent developments in ecosystem risk assessment in Latin America with contrasting examples, from continental analysis based on regional vegetation units and broad ecosystem definitions, to national and subnational assessments focused on locally described but internally consistent classifications. We will close the session with an outlook of the role that the RLE can play in international and national policy. After the presentations, we will discuss the strengths and weaknesses of the different approaches, and draft guidelines for future steps toward a better integration of national and regional efforts.

A continental challenge: Assessment of tropical and temperate forest decline in the Americas

José Ferrer Paris, Ivic; Mario González-Gil, Provita; Jon Paul Rodriguez, Instituto Venezolano de Investigaciones Científicas; Irene Zager, Provita

Assessing changes to ecosystem function in Latin America

Carlos Zambrana-Torrel, EcoHealth Alliance; Amira Apaza, UNDP; Miguel Fernandez, UNDP; Erica Johnson, EcoHealth Alliance; Maria Oliveira-Miranda, Instituto de Recursos Naturales; Jon Paul Rodriguez, Instituto Venezolano de Investigaciones Científicas; Irene Zager, Provita

The Red List of Ecosystems for Colombia and the conservation of biodiversity

Andres Etter, Pontificia Universidad Javeriana; Paula Amaya, Pontificia Universidad Javeriana; Angela Andrade, Conservation International-Colombia; Paulo Arévalo, Pontificia Universidad Javeriana

Evaluation of terrestrial ecosystems in Chile according to the IUCN Red List of Ecosystems

Patricio Pliscoff, Universidad Católica de Chile

Collaborative and applied science: The pathway for integrating the Ecosystem Approach

Carolina Del Lama Marques, IUCN; Miguel Avila Moraes, IUCN; Danielli Kutschenko, International Union for Conservation of Nature

Integrating biodiversity in conservation planning for human health and well-being

Cristina Romanelli, Secretariat of the Convention on Biological Diversity; Catherine Machalaba, EcoHealth Alliance; Carlos Zambrana-Torrel, EcoHealth Alliance

SYMPOSIUM

WILDLIFE CRIME BRIDGING THE GAP BETWEEN CONSERVATION SCIENCE AND CRIMINOLOGY PART I

Sala 303

10:00-11:30

Justin Kurland, Rutgers University

Wildlife crime—and the various forms of poaching in particular—threatens both local and global populations of particular species with extinction. To date, those with backgrounds in the biological sciences have conducted the majority of the research on wildlife crime. However, theories and methods for addressing illegal behavior



from the social and mathematical sciences have much to offer in examining wildlife crimes. More specifically, the session will explore how criminologists, and those from other disciplines, might improve conservation efforts by analyzing various types of poaching to determine where, when, how, and what is being targeted. The papers seek to identify patterns and the underlying opportunity structures involved that make them amenable to prevention. This is Part I of a series of symposia and a workshop on wildlife crime that will be cross-branded by the social sciences working group. Part I focuses on the spatio-temporal aspects of flora and fauna poaching, Part II focuses on illegal trade, trafficking and consumer demand, and Part III focuses on human-animal conflict. Across the three sessions we have secured a 50:50 speaker gender ratio, with representation across five continents, a mix of academics and practitioners, and a Stockholm Prize winner (the Nobel Prize of criminology).

A Spatio-Temporal Analysis of Albatrosses' Exposure to Illegal Long-lining Hooks in the CCSBT

Ronald Clarke, Rutgers University; Gohar Petrossian, Rutgers University, School of Criminal Justice

Disparities in Primate Vulnerability to Hunting and Implications for Managers

Lauren Wilson, Rutgers University

Preventing human-elephant conflict in forest areas of Tamil Nadu, India: The role of electric fences

Mangai Natarajan, John Jay College of Criminal Justice, The City University of New York

"Crime Script" for the Illegal Wildlife Trade of Peru

Antony Leberatto, New Jersey City University

Teasing apart environmental and social influences during group movement in free ranging animals

Maggie Wisniewska, Rutgers University and New Jersey Institute of Technology; Gareth Russell, New Jersey Institute of Technology

The Spatial Pattern of Redwood Burl Poaching Incidents: Implications for Prevention

Stephen Pires, Florida International University; Justin Kurland, Rutgers University; Nerea Marteache, California State University - San Bernardino

SYMPOSIUM

USING INTERDISCIPLINARY FRAMEWORKS TO ADDRESS CORAL REEF CONSERVATION

Sala 304

10:00-11:30

Fraser Januchowski-Hartley, Institut de recherche pour le développement; Dominique Pelletier, IFREMER

Coral reefs are an ecosystem under great threat, exposed to numerous complex stressors. Complicating how stressors can be tackled, is the tendency to investigate or address factors such as ecology, physiology, governance, poverty, gender, culture and social hierarchies in isolation, often treating other aspects of coral reefs as a "black box", with little acknowledgement of the dynamics operating outside of the direct field of interest. To address and solve the challenges these stressors pose in an equitable manner that ensures long-term success, coral reef conservation needs to expand its repertoire of tools beyond reserves and fisheries restrictions. This will only be achieved through a truly inter-disciplinary approach acknowledging the dynamics and complexities of each field. This symposium aims to bring together researchers and practitioners currently working on coral reefs from social, biological and conservation science backgrounds, to discuss what the current challenges and opportunities are in coral reef conservation, and how we can leverage interdisciplinary research to most effectively address these. The presentations will focus on practical, interdisciplinary, applied work, setting the context for a panel discussion and dialogue. This dialogue will specifically involving conservation practitioners and researchers that approach reef conservation predominantly from the biological or from the social, as well as inter-disciplinary researchers to identify opportunities, and to share experiences of stumbling blocks and how these can be best avoided.



How identifying deviance from expectations can inform reef conservation and management?

Fraser Januchowski-Hartley, UMR MARBEC, Institut de recherche pour le développement; Leïla Apithy, Institut Agronomique Néo-Calédonien; Séverine Bouard, Institut Agronomique Néo-Calédonien; Stéphane Guyard, École des Mines de Nantes; Michel Kulbicki, UMR ENTROPIE, IRD, Université de Perpignan; David Mouillot, UMR MARBEC, Université de Montpellier; Laurent Vigliola, UMR ENTROPIE, Institut de Recherche pour le Développement; Laurent Wantiez, University of New Caledonia

Tradeoffs and Synergies in MPA Impact for Social and Ecological Objectives

Megan Barnes, University of Hawaii at Manoa; Gabriella Ahmadi, World Wildlife Fund; Helen Fox, National Geographic Society; Louise Glew, World Wildlife Fund-US; Michael Mascia, Conservation International; Fitry Pakading; Purwanto

National scale land-sea planning for Papua New Guinea

Vanessa Adams, University of Queensland; Simon Linke, Griffith University; Hugh Possingham, The University of Queensland; Vivitskaia Tulloch, University of Queensland

A business case for coral reef conservation

Kenneth Anthony, Australian Institute of Marine Science

Effective Dispersal of Caribbean Reef Fish is Smaller than Current Spacing Among MPAs

Diana Beltran Rodriguez, University of Puerto Rico; Richard Appeldoorn, University of Puerto Rico; Carlos Prada, STRI; Nickolaos Schizas, University of Puerto Rico

Panel discussion

12-MINUTE TALKS

ECOSYSTEM FUNCTION AND SERVICES 1

Sala 103
11:30-13:00

Defaunation of seed dispersers and predators affects carbon storage in tropical forest

Carolina Bello, Universidade Estadual Paulista, UNESP; Laurence Culot, Universidade Estadual Paulista, UNESP; Mauro Galetti, Departamento Ecologia, UNESP

The role of biodiversity in eelgrass food web structure and functioning: A multidimensional approach

Aaron Eger, University of Victoria; Julia Baum, University of Victoria; Rebecca Best, University of Northern Arizona

Ecosystem service production is decoupled from native forest cover in novel pastures

Nohora Alarcón, University of São Paulo; Jean Paul Metzger, University of São Paulo; Elizabeth Nichols, Swarthmore College; Renata Pardini, University of São Paulo;

Testing functional redundancy and response diversity as indicators of forest productivity resilience

David Laginha Pinto Correia, Université Laval

Global mapping of microalgal bioenergy production at minimal environmental costs

Diego Correa, The University of Queensland; Hawthorne Beyer, The University of Queensland; Hugh Possingham, The University of Queensland; Peer Schenk, The University of Queensland; Skye Thomas-Hall, The University of Queensland

Mangrove artisanal fisheries in the tropical Eastern Pacific Ocean

Gustavo Castellanos Galindo, WWF Colombia, Leibniz Centre for Tropical Marine Research; Lotta Kluger, Leibniz Centre for Tropical Marine Research; Matthias Wolff, Leibniz Centre for Tropical Marine Research



Quantifying impacts of varying levels of liana infestation on tree growth in a Neotropical forest

Maria Elizabeth Rodriguez-Ronderos, Smithsonian Tropical Research Institute; Stefan Schnitzer, Marquette University

12-MINUTE TALKS

IMPACT EVALUATION

Secretaría General
11:30-13:00

No Net Loss for people and biodiversity

Victoria Griffiths, Oxford University; Julia Baker, Balfour Beatty; Joseph Bull, University of Copenhagen - KU; E.J. Milner-Gulland, University of Oxford

Impact forecasting Predicting the likely impacts of conservation interventions

Louise Glew, World Wildlife Fund; Andrew Fayram, World Wildlife Fund; Shauna Mahajan, World Wildlife Fund; Rebecca Snyder, World Wildlife Fund; Martha Stevenson, World Wildlife Fund

Highway to hell Road networks decrease genetic connectivity in a small mammal

Morgan Gray, UC Berkeley; Adina Merenlender, Hopland Res & Ext Ctr

Offset counterfactuals in an uncertain future an impact assessments framework

Isaac Peterson, RMIT; Sarah Bekessy, GPO; Ascelin Gordon, Victoria; Atte Moilanen, University of Helsinki

Coding our way to evidence-based decision making: The role of data visualization

Samantha Cheng, National Center for Ecological Analysis & Synthesis; Caitlin Augustin, Kaplan; Julien Brun, National Center for Ecological Analysis & Synthesis; Neal Haddaway, MISTRA EviEM; Madeleine McKinnon, Vulcan, Inc.; David Wilkie, Wildlife Conservation Society

Highlighting invasive Africanized-honey bees as an increasing threat to the endangered Lear's Macaw

Erica Pacífico, Estación Biológica de Doñana; Roberta Cunha, Lear's Macaw Research and

Conservation Project; Caroline Efstathion, University of Florida; Thiago Filadelfo, Lear's Macaw Research and Conservation Project

12-MINUTE TALKS

BIODIVERSITY INVENTORY AND MONITORING 2

Arsenal
11:30-13:00

Population richness of vertebrate species across the Americas

Elizabeth Lawrence, Concordia University

Using temporally explicit habitat suitability models to reduce dynamic threats to mobile species

Heather Welch, NOAA NMFS SWFSC ERD; Bob Pressey, James Cook University; April Reside, University of Queensland

PowerSensor A power analysis tool for occupancy monitoring programs

Jorge Ahumada, Conservation International; Lydia Beaudrot, University of Michigan; Patrick Jansen, Smithsonian Tropical Research Institute/Wageningen University; Tim O'Brien, Wildlife Conservation Society

Global conservation targets for land vertebrates: Lizards march to the beat of a different drummer

Uri Roll, University of Oxford; Allen Allison, Bishop Museum; Aaron Bauer, Villanova University; Rodolph Bernard, Imperial College London; Monika Bohm, Institute of Zoology, Zoological Society of London; Fernando Castro-Herrera, Universidad del Valle; Laurent Chirio; Benjamin Collen, University College London; Lital Dabool, Technion – Israel Institute of Technology; Indraneil Das, Universiti Malaysia Sarawak; Tiffany Doan, University of Central Florida; Anat Feldman, Tel-Aviv University; Richard Grenyer, University of Oxford; Lee Grismer, La Sierra University; Marinus Hoogmoed, Museu Paraense Emílio Goeldi; Yuval Itescu, Tel-Aviv University; Fred Kraus, University of Michigan; Matthew LeBreton, Mosaic, (Environment, Health, Data, Technology); Amir Lewin, Tel-Aviv University; Marcio Martins, Dept Ecologia, IB, U Sao Paulo; Erez Maza, Tel-Aviv University; Shai Meiri, Tel-Aviv University; Danny Meirte, Royal Belgian Institute



of Natural Sciences; Zoltan Nagy, Royal Belgian Institute of Natural Sciences; Cristiano Nogueira, Universidade de São Paulo; Maria Novosolov, Tel-Aviv University; David Orme, Imperial College London; Olivier Pauwels, Royal Belgian Institute of Natural Sciences; Daniel Pincheira-Donoso, University of Lincoln; Gary Powney, NERC Centre for Ecology and Hydrology; Roberto Sindaco, Museo Civico di Storia Naturale; Oliver Tallowin, Tel-Aviv University; Omar Torres-Carvajal, Pontificia Universidad Católica del Ecuador; Jean-François Trape, UMR MIVEGEC; Peter Uetz, Virginia Commonwealth University; Enav Vidan, Tel-Aviv University; Philipp Wagner, Zoologische Staatssammlung München; Yuezhao Wang, Chinese Academy of Sciences

Quantifying hunting-induced defaunation across the tropics

Ana Benítez López, Radboud University; Mark Huijbregts, Radboud University; Aafke Schipper, Netherlands Environmental Assessment Agency (PBL)

A rapid acoustic assessment identifies a unique fauna in Madagascar

Orlando Acevedo-Charry, GOUN; T. Mitchell Aide, Sieve Analytics Inc, University of Puerto Rico-Rio Piedras; Dina Andrianoely, Centre ValBio; Claude Ralazampirenena, Centre ValBio; Patricia Wright, Ictc

NAIRA: a tool in the management and processing of camera trap images

Angélica Diaz-Pulido, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Luis Pulido Castelblanco, SISTEMIC, Engineering Faculty, Universidad de Antioquia (UDEA); Claudia Isaza Narváez, SISTEMIC, Engineering Faculty, Universidad de Antioquia (UDEA)

Design and Implementation of a Monitoring Program for a Protected Area with Infrastructure Work

Jorge Parra, Wildlife Conservation Society; Lina Caro, Wildlife Conservation Society; Edna Calpa, Wildlife Conservation Society; Francis Ramírez, Wildlife Conservation Society; Vladimir Rojas, Wildlife Conservation Society; Leonor Valenzuela, Wildlife Conservation Society; Ana Yusti, Wildlife Conservation Society;

12-MINUTE TALKS

FRESHWATER CONSERVATION 1

Barahona 1
11:30-13:00

Conserving wetland biodiversity landscape context for reducing biodiversity-productivity trade-off

Libin Thaikattil Louis, University of British Columbia; Jeanine Rhemtulla, University of British Columbia

Potential impact of river diversions on wetland inundation and waterbird communities

Justin McCann, University of New South Wales; Richard Kingsford, University of New South Wales; Rachel Melrose, University of New South Wales; Gordana Popovic, University of New South Wales

Ugly and poor: The conservation of uncharismatic animals in undeveloped countries

Cristhian Clavijo Romero, Museo Nacional de Historia Natural; Romi Burks, Southwestern University (Georgetown, Texas)

An Evaluation of an Incentive-based Watershed Conservation Program using a Randomized Control Trial

Edwin Pynegar, Bangor University; Nigel Asquith, Fundación Natura Bolivia; James Gibbons, Bangor University; Julia Jones, Bangor University

Can conservation buffer the impact of invasive species? Insights from neotropical river otter scats

Antonio Juárez-Sánchez, University of Florida; John Blake, University of Florida; Eric C. Hellgren, University of Florida

Predicting Road Mortality Hotspots in Northeastern North Carolina, USA

Christine Proctor, Harrisburg University; Marcella Kelly, Dept of Fisheries and Wildlife; Andrew Trent, Virginia Tech; Michael Vaughan, Virginia Tech

Impacts of seasons and site effects on pathogens within amphibian communities

Ariel Horner, University of Central Florida; Emily Karwacki, University of Central Florida; Cassandra



12-MINUTE TALKS

SAVANNA AND TEMPERATE GRASSLANDS

Barahona 2
11:30-13:00

The importance of large mammals for arthropod conservation in transformed landscapes

James Pryke, Stellenbosch University; Francois Roets, Stellenbosch University; Michael Samways, Stellenbosch University

Functional landscape connectivity and movement corridors modelling for African elephant

Liudmila Osipova, Bangor University, University of Goettingen; Matt Hayward, Bangor University; Niko Balkenhol, University of Goettingen

Quantifying and mapping illegal poison use by farmers in Namibia

Andrea Santangeli, University of Helsinki; Volen Arkumarev, BSPB; Marco Girardello, University of Aarhus; Niki Rust, San Diego Zoo Global

The Bird-Friendliness Index: A novel metric for quantifying the success of conservation programs

Nicole Michel, National Audubon Society; Curtis Burkhalter, National Audubon Society; Gary Langham, National Audubon Society; Brian Trusty, National Audubon Society; Chad Wilsey, National Audubon Society

Post-fire recovery of a native rodent: Managing fire for conservation in northern Australia

Robyn Shaw, The Australian National University; Sam Banks, The Australian National University; Alex James, The Australian Wildlife Conservancy; Rod Peakall, The Australian National University; Katherine Tuft, Arid Recovery

The drivers that shape composition and dynamics of the plant communities around street

Machon Nathalie, Mnhn; Mona Omar, Mnhn

Combining ecological and economic knowledge to prevent unexpected outcomes from public lands policy

Claire Runge, National Center for Ecological Analysis and Synthesis, UCSB

12-MINUTE TALKS

CONSERVATION IN THE MATRIX

Barahona 3 (livestreaming and live translation)
11:30-13:00

Comparison of species coverage of communal, Private and State Reserves in Peru

Sam Shanee, Neotropical Primate Conservation

Supporting the landholders of private protected areas

Julie Groce, Monash University (Australia); Carly Cook, Monash University

Connectivity in a Fragmented Landscape a tale of two species

Prachi Thatte, National Center for Biological Sciences; Aditya Joshi, Wildlife Conservation Trust; Kaushal Patel, National Centre for Biological Sciences; Uma Ramakrishnan, National Centre for Biological Sciences

Sustainable Agriculture at a Biological Station in the Amazonian Foothills

Cecilia Barriga Bahamonde, Asociacion para la Conservacion de la Cuenca Amazonica - ACCA

Forest connectivity for seed dispersal in Borneo: Before and after oil palm development

Natalia Ocampo-Peñuela, ETH Zurich; John Garcia Ulloa, ETH Zurich; David Gaveau, CIFOR; Jaboury Ghazoul, ETH Zurich

Is buying or renting land the best way to develop ecological networks on private land?

Bob Smith, DICE, University of Kent; Paul Armsworth, University of Tennessee; Humphrey Crick, Natural England; Zoe Davies, DICE, University of Kent; Nicholas Macgregor, Natural England; Assaf Schwartz, Technion - Israel Institute of Technology; Rachel Sykes, DICE, University of Kent



Conservation planning and systematic literature reviews for private land conservation in Uruguay
Gonzalo Cortés Capano, University of Helsinki; Lucía Bartesaghi, Sistema Nacional de Áreas Protegidas; Enrico Di Minin, University of Helsinki; Mariana Ríos, Sistema Nacional de Areas Protegidas; Alvaro Soutullo, Centro Universitario Regional Este; Maria Szephegyi, DINAMA; Tuuli Toivonen, University of Helsinki

12-MINUTE TALKS

POPULATION DYNAMICS AND MODELLING

Barahona 4
11:30-13:00

Predicting population density in terrestrial vertebrates for conservation applications

Luca Santini, Radboud University; Chris Carbone, Institute of Zoology, Zoological Society of London; Mark A.J. Huijbregts, Institute for Water and Wetland Research, Radboud University; Nick J.B. Isaac, Centre for Ecology & Hydrology; Luigi Maiorano, Sapienza niversity of Rome; Gentile Francesco Ficetola, University Grenoble Alpes, CNRS; Wilfried Thuiller, University Grenoble Alpes, CNRS

Mountain ash population dynamics and the conservation of key forest habitat components in Australia

Brenton Von Takach Dukai, Fenner School of Environment & Society, The Australian National University

Global meta-population viability analyses of threatened seabirds scaling up risk assessment

Diana Ruiz, University of California Santa Cruz

An Allometric Approach to Estimate Plant Species Extinction Vulnerability

Melinda De Jonge, Radboud University Nijmegen; A. Jan Hendriks, Radboud University Nijmegen; Jelle Hilbers, Radboud University Nijmegen; Mark Huijbregts, Radboud University Nijmegen; Eelke Jongejans, Radboud University Nijmegen; Wim Ozinga, Alterra - Vegetation, Forest and Landscape Ecology

Understanding the drivers of population change in two sympatric primary consumers

Katie Hooker, University of Florida; L. Conner, Joseph W. Jones Ecological Research Center; Robert McCleery, University of Florida; Gail Morris, Joseph W. Jones Ecological Research Center; Theron Terhune, Tall Timbers Research Station

Consequences of individual heterogeneity in reproductive output in a long-lived iteroparous plant

Matthew Tye, Uppsala University

Population modeling of Asian elephant in a tropical forest of north east India

Jyoti Das, Aaranyak

Wild-capture demography and long term population viability in semi-captive Asian elephants

John Jackson, University of Sheffield

12-MINUTE TALKS

CONSERVATION PLANNING AND PRIORITIZATION 1

Sala 301
11:30-13:00

Prioritizing management actions when data is scarce and systems are complex

Laura Kehoe, Dept. of Biology, UVIC; Julia Baum, Dept. of Biology, UVIC; Tara Martin, Department of Forest and Conservation Sciences, UBC

Spatial conservation planning with feedback effects harnessing asymmetric information incentives

Cecilia Larrosa, University of Oxford; Cristina Banks-leite, Imperial College London; L. Roman Carrasco, National University of Singapore; E.J. Milner-Gulland, University of Oxford; Leandro Tambosi, Universidade de Sao Paulo

Using a social-ecological framework to inform the implementation of conservation plans

Angela Guerrero, University of Queensland; Kerrie Wilson, The University of Queensland



Reconciling expert and stakeholder preferences for marine management

Katrina Davis, University of Queensland; Michael Burton, University of Western Australia; Antoine Camus, Agro Paris Tech; Ram Pandit, University of Western Australia; Hugh Possingham, The University of Queensland; Jonathan Rhodes, The University of Queensland; Abbie Rogers, University of Western Australia; Alaya Spencer-Cotton, University of Western Australia

Tetrapods on the EDGE refining phylogenetic prioritisation to implement conservation action

Rikki Gumbs, Zoological Society of London

Cost-effective conservation decisions in the face of uncertainty

Stephanie Avery-Gomm, University of Queensland; Debby Crouse, US Fish and Wildlife Service; C. Drew, KDV Decision Analysis LLC; Leah Gerber, Dept Biology, Az State Univ; Gwen Iacona, University of Queensland; Richard Maloney, Department of Conservation; Jeff Newman, US Fish and Wildlife Service; Hugh Possingham, The University of Queensland; Libby Rumpff, University of Melbourne; Michael Runge, US Geological Survey, Patuxent Wildlife Research Center

Finding the needles in the evidence haystack: Smart sorting for conservation decision-making

Caitlin Augustin, DataKind, Abess Center for Ecosystem Science and Policy, University of Miami; Sam Anzaroot, DataKind; Samantha Cheng, National Center for Ecological Analysis & Synthesis; Burton DeWilde, DataKind, ChartBeat; Madeleine McKinnon, Vulcan, Inc.; Robert Minnich, DataKind, Columbia University; David Wilkie, Wildlife Conservation Society

SYMPOSIUM

THE FUTURE OF CONSERVATION ONE MOVEMENT OR MANY (*Diversity, Equity and Inclusion Journey*)

Sala 302

11:30-13:00

Janet Fisher, University of Edinburgh; George Holmes, University of Leeds; Chris Sandbrook, UNEP World Conservation Monitoring Centre

The last few years have seen the re-emergence of heated debates among conservationists regarding the rationales, objectives and approaches of conservation. These debates reveal the strong divergence of views within the conservation community, and have triggered secondary discussions about how to handle such differences of opinion and objective. Some have argued that conservation should be an inclusive movement that embraces diversity whilst maintaining a united front. Others have argued that diversity of views demands open discussion and 'agonistic pluralism', and even possibly the fragmentation of the wider movement into multiple movements and foci. This symposium will bring together voices in this debate to consider new empirical evidence regarding the views held by conservationists and the extent to which shared ways of thinking can be identified amongst a 2015 study of ICCB participants and the findings of the broader 'Future of Conservation' survey. We will use this as a platform to discuss the merits and demerits of conservation fragmenting or coalescing and we will hear a perspective about the importance of the conservation movement incorporating and fostering diverse perspectives. We will also examine lessons from particular areas of conservation (the illegal wildlife trade) and a large scale study of the conservation attitudes and behaviours of Millennials in populous countries. The symposium will comprise five speakers drawn from different disciplinary backgrounds, and will conclude with a moderated debate involving the audience, which will allow for the wider discussion of issues raised during the presentations.

Understanding conservationists' perspectives on the new-conservation debate

Janet Fisher, University of Edinburgh; George Holmes, University of Leeds; Chris Sandbrook, UNEP World Conservation Monitoring Centre

What do conservationists think? Results from the global Future of Conservation Survey

Chris Sandbrook, UNEP World Conservation Monitoring Centre; Janet Fisher, University of Edinburgh; George Holmes, University of Leeds; Rogelio Luque Lora, University of Cambridge

Opportunities and Risks for Conservation in the Millennial Generation

Yuta Masuda, The Nature Conservancy; Sheila Reddy, The Nature Conservancy

The future of conservation: Insights from contentious debates on the illegal wildlife trade

Duan Biggs, Griffith University; Ray Ison, Open University

Panel Discussion

SYMPOSIUM

WILDLIFE CRIME BRIDGING THE GAP BETWEEN CONSERVATION SCIENCE AND CRIMINOLOGY PART II

Sala 303

11:30-13:00

Matthew Holden, University of Queensland

The increasingly interconnected global economy has made it possible to rapidly supply consumer demand for wildlife products around the world, threatening both local and global populations with extinction. Because management actions to conserve such species ultimately require changes in human behavior and can have profound impacts on human livelihood, research towards solving the illegal wildlife trade crisis must cross disciplines from traditional ecologically focused research into the social and mathematical sciences. In this symposium, we propose tools, frameworks and potential solutions to curtail illegal wildlife trade borrowing heavily from the field of criminology. Throughout the session, we explore the complexities that make illegal wildlife trade a wicked problem, including: taboo trade-offs between conservation, social and moral objectives, market uncertainties, complex feedbacks between suppliers, consumers and wildlife populations, and the financial sustainability of management plans. This is Part II of a series of symposia

on wildlife crime. Part I focuses on the spatio-temporal aspects of flora and fauna poaching, Part II focuses on illegal trade, trafficking and incentives to consume and supply illegal wildlife products.

Innovation a necessity to save the African elephant from illegal ivory trade

Matthew Holden, Centre for Biodiversity and Conservation Science, University of Queensland; Payal Bal, University of Queensland; Duan Biggs, University of Queensland, Henry Brink, Department of Environment and Natural Resources; Eve McDonald-Madden, Dept Sustainability & Environ; Jonathan Rhodes, The University of Queensland

Novel approaches to understand and influence incentives for illegal resource use in protected areas

Henry Travers, University of Oxford; Lucy Archer, Imperial College London; Julia Baker, Balfour Beatty; E.J. Milner-Gulland, University of Oxford; Geoffrey Mwedde, Wildlife Conservation Society; Andrew Plumptre, Wildlife Conservation Society; Dilys Roe, IIED; Aggrey Rwetsiba, Uganda Wildlife Authority

Evaluating poaching interventions in the Congo Basin through the Situational Crime Prevention lens

Julie Viollaz, Rutgers Center for Conservation Criminology; John Waugh, Integra LLC

Wildlife guardianship: Willingness to intervene in the face of wildlife crime

Jessica Kahler, Michigan State University; Meredith Gore, Michigan State University

Urban bushmeat trafficking: Trafficking from the rural to urban context in the Republic of the Congo

Rachel Boratto, Michigan State University; Lucie Escoufflaire, Wildlife Conservation Society; Meredith Gore, Michigan State University

Rhino Horn: Perspectives in Traditional Chinese Medicine

Hubert Cheung, University of Queensland



SYMPOSIUM

LOST IN TRANSLATION: NAVIGATING COMPLEX POLICY PROCESSES TO DELIVER CONSERVATION OUTCOMES

Sala 304

11:30-13:00

Megan Evans, The University of Queensland

Translating policy into conservation outcomes is typically a messy and difficult process, regardless of the issue at hand or the location of concern. Existing policy systems are political and value-laden, and involve multiple actors with a range of motivations and interests. This means that scientific evidence tends not to feed into policy and practice in a neat, linear fashion, making this process challenging and often frustrating for scientists to navigate. Conservation scientists have in recent times sought to better understand how to integrate science into policy, with research on evidence-based and evidence-informed conservation, and the science-policy interface now commonplace. The current public debate about entering a “post-truth” era makes it even more crucial for conservation scientists to understand the socio-political systems in which we all operate. An interdisciplinary lens which combines political science, public policy, economics and other conservation social and natural sciences can be extremely helpful to better understand and engage with the policy process. This symposium seeks to: 1) highlight some of the complexities of engaging with and influencing policy, and where barriers to achieving conservation outcomes can exist; 2) illustrate these complexities with case studies on biodiversity offsetting, polar bear and climate change conflict, and food systems in Southeast Asia; and 3) provide some lessons drawing on these examples and the public policy literature on what are the conditions in which these barriers may be successfully navigated to lead to positive conservation outcomes.

Understanding the governance of biodiversity offsetting: information, institutions & politics

Megan Evans, The University of Queensland

Doing conservation differently

Rebecca Jarvis, Institute for Applied Ecology
New Zealand, Auckland University of
Technology; Barbara Bollard Breen, Auckland
University of Technology

Public participation in conservation matters: A global evaluation

Volker Mauerhofer, University of Vienna

Reframing food research and policy to connect ecological and social outcomes in Southeast Asia

Federico Davila, The Australian National University;

The role of message framing in delivering effective threatened species conservation programs

Sarah Bekessy, GPO; Georgia Garrard, RMIT University; Alex Kusmanoff, RMIT University

Panel discussion

12-MINUTE TALKS

ECOSYSTEM FUNCTION AND SERVICES 2

Sala 103

14:30-16:00

Ecological functions of peatlands in the northern Andes can be maintained after disturbances

Juan Benavides, Dept. Ecología y Territorio.
Pontificia Universidad Javeriana; Rod Chimner,
Michigan Tech University; John Hribljan, Michigan
Tech University; Erik Lilleskov, US Forest Service,
Northern Station; Laura Ospina, Universidad Eafit

Using a tree diversity experiment to explore spatial caterpillar host use and diversity patterns

Karin Burghardt, Smithsonian Environmental
Research Center

Tracking exploitation in reef fisheries redundancy and specificity of community-level indicators

James Robinson, University of Victoria; Adel
Heenan, Coral Reef Ecosystem Program

Ecoagricultural landscape a conservation option for wildlife in an anthropized landscape in Mexico

Mónica Riojas-López, Universidad de
Guadalajara-CUCBA; Eric Mellink, Centro de
Investigación Científica y Educación Superior de
Ensenada

Do Marine Protected Areas benefit coral communities in the Mexican Caribbean?

Adam Suchley, Posgrado en Ciencias del Mar y Limnología, UNAM; Lorenzo Alvarez-Filip, Instituto de Ciencias del Mar y Limnología, UNAM

Mangrove ecosystem and carbon storage potential in Guyana

Abdullah Ansari, University of Guyana

Unpacking changes in mangrove social-ecological systems: lessons from Brazil, Zanzibar and Vietnam

Claire Quinn, University of Leeds; Lindsay Stringer, University of Leeds; Rachel Berman, University of Leeds; Flower Msuya, Institute of Marine Sciences (IMS), University of Dar es Salaam; Steven Orchard, University of Leeds; Juarez Pezzuti, Centre for Advanced Amazonian Studies, Federal University of Pará; Hue Thi van Le, Vietnam National University

KNOWLEDGE CAFÉ

THREATENED SPECIES MANAGEMENT AND RECOVERY

Hall de exposiciones
14:30-16:00

Conservation plan of the lowland tapir (*Tapirus terrestris*) in the Colombian Orinoco

Angela Alviz, Fundación Orinoquia Biodiversa; Maira Villanueva, Fundación Orinoquia Biodiversa; Karen Pérez-Albarracín, Fundación Orinoquia Biodiversa

Prioritizing conservation actions for threatened species in the tropics

Eliana Fierro Calderon, Asociacion Calidris; Jeisson Zamudio, Asociacion Calidris Santiago Zuluaga, Proyecto Águila Crestada; Christian Devenish, Manchester Metropolitan University

Declaring Important Sites for Bat Conservation in Colombia

Sergio Estrada Villegas, Marquette University; Elisabeth Bahamon Azuero, Programa para la Conservación de los Murciélagos de Colombia; Diana Cardona, Programa para la Conservación de los Murciélagos de Colombia; L. Santiago Castillo,

Programa para la Conservación de los Murciélagos de Colombia; Daniel Mauricio Díaz Rueda, Universidad Nacional de Colombia - Sede Medellín; Jairo Perez-Torres, Universidad Javeriana; Veronica Plata Corredor, Programa para la Conservación de los Murciélagos de Colombia; Manuel Rodríguez Rocha, Programa para la Conservación de los Murciélagos de Colombia

Assessing the suitability of species monitoring data for trend analyses

Elisa Bayraktarov, The University of Queensland; Megan Barnes, University of Hawaii at Manoa; Joris Driessen, Birdlife Australia; Glenn Ehmke, Birdlife Australia; Stephen Garnett, Charles Darwin University; Sarah Legge, The University of Queensland; David Lindenmayer, The Australian National University; Louise McRae, The Zoological Society of London; James O'Connor, Birdlife Australia; Hugh Possingham, The University of Queensland; Ayesha Tulloch, University of Queensland; John Woinarski, Charles Darwin University

Assessing the distribution and threats of pangolin in the Lobeke National Park of Cameroon

Ngu Tamufor

Lynx critical thresholds to environmental stressors: An eco-physiological approach

Catarina C. Ferreira, UFZ - Helmholtz-Centre for Environmental Research, Trent University; Gabriela F. Mastromonaco, Toronto Zoo; Dennis L. Murray, Trent University; James D. Roth, University of Manitoba; Christa M. Szumski, University of Manitoba; Christine V. Terwissen, Trent University

The impact of a long-term species-based conservation program in Brazil: The Black Lion Tamarin case

Gabriela Rezende, IPÊ - Instituto de Pesquisas Ecológicas; Claudio Padua, IPÊ - Instituto de Pesquisas Ecológicas;

Urgent strategy to recover a functionally extinct population of Lears Macaw and rescue its habitat
Thiago Filadelfo, Lear's Macaw Research and Conservation Project; Erica Pacífico, Estación Biológica de Doñana



Species composition and regeneration potential of resources for howler monkeys under bamboo logging

Carolina Gomez-Posada, University of Washington; Melissa Alzate, Fundación Aiunau; Álvaro Botero-Botero, Universidad del Quindío; Esmeralda Fernández, Universidad del Quindío; Germán Gómez, Universidad del Quindío; Martha Groom, University of Washington;

Identifying Scaling-Up Effective Integrative Solutions for Jaguar Conservation

Anthony Giordano, S.P.E.C.I.E.S.

SYMPOSIUM

MORE PROBLEMS COME TO THE OCEAN: EMERGING ISSUES IN MARINE CONSERVATION SCIENCE

(Diversity, Equity and Inclusion Journey)

Secretaría General

14:30-16:00

María De Lourdes Martinez Estevez, UNAM,UCSC

Once considered as an infinite source of goods and services, oceans face the highest rates of extraction with the subsequent loss of species, degradation of ecosystems and the decline in the provision of services for human beings. The Marine Section of the Society for Conservation Biology promotes scientific research and public policies, supports the inclusion and diversity, encourage interdisciplinary work, and disseminates, through education, the importance of the oceans. Although our efforts seem insufficient in the face of new threats and the pace of degradation, the discussion of different approaches to solve them is a good way to identify the future direction of the section and the improvements needed in the marine conservation realm. This symposium seeks to explore the issues that impact the effectiveness of marine conservation, and to discuss the initiatives that bring solutions to conservation problems. The session brings together specialists whose work in these subjects will give us a better understanding of different approaches to increase the long-term conservation gains, from the perspective of different actors and at different scales.

Solving the hard questions to increase the effectiveness of marine conservation

John Cigliano, Cedar Crest College

Filling the Science-to-Policy Gaps: Boundary Practitioners in Marine Conservation

Kathryn Matthews, Oceana; Angela Bednarek, Pew Charitable Trusts; Charlotte Hudson, Lenfest Ocean Program

The Global Ocean Refuge System initiative to scale up the quantity and quality of MPAs

David Johns, Marine Conservation Institute Board, Portland State University; Lance Morgan, Marine Conservation Institute; Sarah Hameed, Bodega Marine Laboratory, University of California, Davis

Maintenance of marine biodiversity through offsetting: Innovative financing or risky business?

Holly Niner, UCL

Panel Discussion

SYMPOSIUM

STATUS OF BUSHMEAT EXPLOITATION AND TRADE IMPLICATIONS FOR BIODIVERSITY CONSERVATION

(Diversity, Equity and Inclusion Journey)

Arsenal

14:30-16:00

James McNamara, The Breakthrough Institute; John Fa, Durrell Wildlife Cnsvtn Trust; Yaa Ntiamo-baidu, University of Ghana; and Evi Paemelaere, Panthera; Dafna Angel, Panthera

The exploitation of bushmeat for food and trade represents a severe ecological crisis for both people and nature. Finding solutions will require innovative interdisciplinary approaches that bring together experts from various disciplines to understand both the ecological and human dimensions of the problem. This symposium will present the latest research into the drivers of the bushmeat trade from leading researchers

in the field, using long-term, decadal data sets to explore the spatial, economic and socio-ecological drivers of the trade. A diverse range of issues will be examined, from the geospatial dynamics of commercial hunting systems in Ghana, to the processes that underpin the hunting strategies of indigenous pygmy groups in Central Africa, and the driver of demand and consumption of bushmeat in Gabon. We close the session with an overview of the latest global trends in hunting-driven mammal declines that highlight the perilous ecological crisis that the bushmeat trade represents if left unmanaged. The session will bring together researchers to share new insights and methodologies and encourage the development of key partnership to provide a strategic front in seeking solutions to bushmeat harvesting.

Bushmeat Supply chain in Ghana and implications for risk of zoonotic disease spill-over to humans

Yaa Ntiamoah-Baidu, University of Ghana; Kofi Amponsah-Mensah, University of Ghana; Jones Quartey, DABCS-University of Ghana; Hannah Sackey, University of Ghana;

How land-use and climate define the value of commercial bushmeat harvests in Ghana

James McNamara, The Breakthrough Institute

Differences between Pygmy and non-Pygmy hunting in the Congo Basin

John Fa, Manchester Metropolitan University

Drivers of compositional changes in hunted Central African vertebrates

Daniel Ingram, University of Sussex; Lauren Coad, University of Sussex

Moving from data to action: Sharing ownership of the research process with indigenous scientists

Matthew Hallett, University of Florida

Tracking the use of wild animals: A global database of wild animal offtake consumption

Lauren Coad, University of Sussex

12-MINUTE TALKS

FRESHWATER CONSERVATION 2

Barahona 1

14:30-16:00

Surface water dynamics and land use influence landscape connectivity across a major dryland region

Robbi Bishop-Taylor, University of New South Wales; Mark Broich, University of New South Wales; Mirela Tulbure, University of New South Wales

Exploring hillslope seep wetland importance in relation to livestock grazing-using a Social Ecological systems approach in the Upper Tsitsa Catchment, South Africa

Notiswa Libala, Rhodes University, South Africa

Species-specific behaviours in anthropologically-disturbed landscapes can lead species to extinction

Amael Borzee, Seoul National University; Yikweon Jang, Ewha Woman's University

Evaluation of strategies in Kruger National Park to effectively conserve aquatic biodiversity

Helen Barber-James, Albany Museum; Alexandra Jennifer Holland, Department of Freshwater Invertebrates, Albany Museum; Hendrik Sithole, South African National Parks

Stormwater wetlands: Valuable habitats for urban conservation or ecological traps

Michael Sievers, The University of Melbourne; Robin Hale, The University of Melbourne; Kirsten Parris, The University of Melbourne; Stephen Swearer, The University of Melbourne

Pastoralist Freshwater Governance: Comparing the Wayuu of Colombia and Kuria of East Africa

David Robles, Florida International University

Evaluating American Alligator Home Range and Site Fidelity Patterns in Intensively Managed Wetlands

Abigail Lawson, Clemson University; Patrick Jodice, Sc Coop. F&w Research Unit; Katherine McFadden, USGS SC Cooperative Fish and Wildlife Research Unit; Thomas Rainwater, Clemson University



SYMPOSIUM

COST-EFFECTIVE TOOLS TO SUPPORT CONSERVATION DECISION-MAKING FOR PROTECTED AREAS IN LATIN AMERICA

(Citizen Science Journey)

Barahona 2

14:30-16:00

Isaac Goldstein, Wildlife Conservation Society;

Viviana Ruiz-Gutierrez, Cornell Lab of Ornithology, Cornell University

Protected areas cover around 14% of the planet's land surface, and are still considered as one of the most effective strategies for conserving the world's biodiversity and natural capital. Latin America has the most land within protected areas in the world- there are 1,949 officially declared protected areas playing a key role in the climatic stability of the region. Recent work by Leisher et al. (2013) found that an estimated 45% of protected areas in Latin America suffered significant land and forest degradation from 2004-2009, and increasing trends in pressures and threats to these critical lands are not showing much signs of declining. To best address the complexity of issues threatening protected areas, we need cost-effective, scalable tools that can provide robust information that is directly linked to the decision-making infrastructure of the protected areas themselves. Most often, protected area staff and officials in charge of designing and implementing management plans for protected areas do not have access to cost-effective, robust approaches to collect and generate much needed information. The end result is a mismatch between the information that can be reliably be collected with the information that is needed to best guide conservation and management practices on the ground. The session will bring together a wide range of experiences in cost-effective monitoring to inform best management practices for protected areas in Latin America. The specific objectives of this symposium are to (1) present examples of applications of cost-effective monitoring tools to generate information that is directly linked to information needs of management plans, and (2) discuss how to best scale and improve lessons.

Conservation decision making for protected areas in Latin America

Viviana Ruiz-Gutierrez, Cornell Lab of Ornithology; Goldstein Isaac, Wildlife Conservation Society

Decision making for the conservation of Andean bears using presence-absence data

Robert Marquez, Wildlife Conservation Society; Guillermo Bianchi, ULA; Isaac Goldstein, Wildlife Conservation Society

Occupation models and sustainable hunting at the Tamshiyach-Tahuayo Conservation Area, Peru

Emiliana Isasi-catala, Laboratorio De Conservación y Manejo De Fauna; Isaac Goldstein, Wildlife Conservation Society; Cecilia Arellano, Wildlife Conservation Society; Claudio Bardales, Wildlife Conservation Society; Frank Flores, Wildlife Conservation Society; Leonardo Maffei, Wildlife Conservation Society; Lucas Muñoz, Wildlife Conservation Society; Marco Odicio, Wildlife Conservation Society; Leon Torres, Wildlife Conservation Society; Lindher Villacorta, Wildlife Conservation Society

Landscape-scale conservation and management of protected areas in Ecuador

Galo Zapata-Rios, Wildlife Conservation Society Ecuador Program; Fernando Anaguano, Wildlife Conservation Society Ecuador Program; Isaac Goldstein, Wildlife Conservation Society Andean Bear Conservation Program; Adrián Naveda-Rodríguez, Wildlife Conservation Society Ecuador Program; Jaime Palacios, Wildlife Conservation Society Ecuador Program

Generating occupancy baselines for monitoring the impact on wildlife of development projects

Robert Wallace, Wildlife Conservation Society

Monitoring within an adaptive management framework for informing conservation actions in Colombia

Leonor Valenzuela, Wildlife Conservation Society; German Forero-Medina, Wildlife Conservation Society; Lina Caro, Student; Lina Caro, Student; Isaac Goldstein, Wildlife Conservation Society; Jhon Infante, Yoluka ONG; Sindy Martinez, Fundación Omacha; Carlos Saavedra, Wildlife Conservation Society

12-MINUTE TALKS

CONSERVATION PRACTICE

Barahona 3 (livestreaming and live translation)
14:30-16:00

How to Achieve Conservation Outcomes at Scale? An Evaluation of Scaling Principles
Willow Battista, Environmental Defense Fund

Exploring Biodiversity Conservation through Community-based Ecotourism Development in Surama, Guyana
Paulette Bynoe, University of Guyana

Challenges of bridging knowledge in the Amazon: The case of *Astrocaryum chambira*
Camilo Alejo, Pontificia Universidad Javeriana

How can global evidence be used to make local conservation decisions?
William Sutherland, University of Cambridge

Using stakeholder-developed scenarios to model four divergent land use futures in NW Virginia
Iara Lacher, Smithsonian Conservation Biology Institute; Tom Akre, Smithsonian Conservation Biology Institute; William McShea, Smithsonian Institution; Jonathan Thompson, Harvard Forest

Formulation of a Strategic Nature Tourism Plan in the Colombian moors as a tool for conservation
David Lesmes, Fundación Reserva Natural La Palmita Centro de Investigación

Local experiences of participating in alternative livelihood projects in Cameroon
Juliet Wright, Imperial College London; Noelle Kumpel, Zoological Society of London; E.J. Milner-Gulland, University of Oxford; Marcus Rowcliffe, Zoological Society of London

SYMPOSIUM

BIODIVERSITY KNOWLEDGE MANAGEMENT FOR FLORA CONSERVATION IN MEGADIVERSE COUNTRIES

Barahona 4
14:30-16:00
Carolina Castellanos, Instituto Alexander von Humboldt

Every day new biological data is being produced by researchers, government institutions and an increasing number of citizens. In addition, a great realm of historical data lies in biological collections and unpublished documents. How to effectively use scientific data for biodiversity management and policy-making is a challenge being faced by many countries, especially those considered as megadiverse, due to the high percentage of species diversity they hold and the responsibility this involves? Brazil, México, Colombia and South Africa together possess more than 100,000 species of plants and there is a great need to monitor their conservation status. In this scenario, red listings offer an effective approach to prioritize conservation actions and position threatened species in the focus of politicians and society. At present, national red listings are available in these countries and an established institutional framework for flora conservation is in place. However, there are still gaps to improve in terms of capacity building for management and use of biodiversity information, science-policy interface and society involvement. To address these gaps, a collaborative network of biodiversity institutions is taking place, with the aim of finding solutions to common problems through knowledge and technology transfer.

Institutional networks for biodiversity data management and flora conservation in Colombia
Hernando Garcia, Instituto Humboldt

Lessons learnt from assessing the flora of a megadiverse country
Domitilla Raimondo, SANBI

The Urgent Need of a Comprehensive Plant Risk Assessment in Mexico
Esther Quintero, CONABIO; Angelica Cervantes, Conabio; Rafael S. Ramirez, CONABIO; Franz Mora, CONABIO



Challenges and Perspectives for Plant Conservation: A study case from Brazil

Rafael Loyola, Universidade Federal de Goias;

Conservation action plans for plant conservation in a megadiverse country, Colombia

Cristina Lopez-Gallego, Universidad de Antioquia, Colombia

Panel discussion

SYMPOSIUM

CONSERVATION PLANNING WHERE IS IT NOW WHAT IS ITS POTENTIAL AND HOW DO WE GET THERE

Sala 301

14:30-16:00

Sam Lloyd, Imperial College University

If conservation science is to contribute to sustaining the diversity of life on earth, then it must inform and influence human behaviour. Conservation planning has emerged to address this need, acting as a vehicle for translating complex ecological understanding into an easily communicated set of priorities, activities, and goals. Considerable attention has been devoted to developing plans designed to both guide conservation interventions and communicate conservation knowledge to other sectors. Reports from practice suggest however that effective implementation depends not just on the final product itself, but on the approach used in plan creation and dissemination. This symposium will bring together speakers from government, private sector, NGOs and academia to share their experiences of using conservation plans in practice. The presenters will discuss how they have used the approach to influence political decision making, mitigate the impact of development, and bring multiple organisations together under a single goal. The academic literature has widely addressed the technical issue of processing and presenting information, this symposium however aims to further the debate on how to overcome the ubiquitous issue of transitioning from knowledge to effective action and political influence.

The status quo of systematic conservation prioritisation: A global survey

Sam Lloyd, Imperial; Andrew Knight, Imperial College London; Emma McIntosh, Oxford University; E.J. Milner-Gulland, University of Oxford; Hugh Possingham, The University of Queensland; Bob Smith, DICE, University of Kent;

Conservation planning and business reducing uncertainties cutting costs and improving outcomes

Jenny Arias Escandon, The Biodiversity Consultancy; Leon Bennun, The Biodiversity Consultancy; Eugenie Regan, The Biodiversity Consultancy

Using conservation planning to engage with government decision making: Lessons from South Africa

Fahiema Daniels, South African National Biodiversity Institute; Tammy Smith, South African National Biodiversity Institute;

Rules versus reality limits to industry capacity when planning for NNL at the landscape scale

Hugo Rainey, Wildlife Conservation Society; Hugo Costa, Wildlife Conservation Society; Hedley Grantham, Wildlife Conservation Society; Fabien Quétier, Biotope; Ray Victorine, Wildlife Conservation Society; Raymond Victorine, WCS; Amrei von Hase, Forest Trends

Real-World Spatial and Conceptual Conservation Planning in Large Complex Systems

Armando Valdes-Velasquez, Foundations of Success/Cayetano Heredia University; Nick Salafsky, Foundations of Success;

Panel discussion

SYMPOSIUM

ADAPTING TO CLIMATE CHANGE EFFECTS AT EXTREME LATITUDES AND ELEVATIONS

(Diversity, Equity and Inclusion Journey)

Sala 302

14:30-16:00

Molly Cross, Wildlife Conservation Society

Climate change is likely to affect conservation targets across the globe, but species at extreme latitudes and elevations face particular challenges. The rate and magnitude of warming is projected to be more extreme at high latitudes, and places closer to the poles and higher in elevation often tend to be covered in ice and snow, conditions that are vulnerable to warming. Confronted with rapid and large changes in climate, plants and animals in high latitudes and on mountaintops may not have options for finding nearby areas that are relatively cooler or more climatically suitable. These challenges also affect the livelihoods of indigenous communities in these extreme landscapes—livelihoods that can be inextricably linked to the health of wildlife and ecosystems. The dramatic changes expected from climate change in these landscapes pose serious questions about whether and how we will be able to conserve plants, animals and livelihoods—What do we need to do more of? What do we need to do differently? How do we think about our goals for nature conservation and human well-being in the face of these transformative changes? We will hear from ecologists, policy analysts and funders about the challenges that climate change poses for nature conservation and indigenous livelihoods spanning the Arctic to the Patagonian Steppe, and strategies for adjusting our conservation actions, policies and investments to cope with this accelerating threat. Then we will discuss opportunities for maintaining conservation, socioeconomic and cultural values in these highly vulnerable landscapes.

Climate change at high elevations and latitudes: The challenge for conservation

Healy Hamilton, NatureServe; Ned Gardiner, NOAA;

Extreme Conservation Confronting Species Losses at the Edges of the World

Joel Berger, Colorado State University; Cynthia Hartway, Wildlife Conservation Society;

Climate Change Effects on Wildlife and Human Livelihoods in Arctic Beringia

Martin Robards, Wildlife Conservation Society

Failed Climate Stabilization of the Arctic in Response to the Actions from the COP-21 Paris Agreement

Thomas Armstrong, Madison River Group

Adapting conservation investments in high latitudes and elevations in the face of a changing climate

Molly Cross, Wildlife Conservation Society

Panel Discussion

SYMPOSIUM

ILLEGAL WILDLIFE TRAFFICKING: FINDING SYNERGIES TO COMBAT A MULTIFACETED THREAT TO BIODIVERSITY

Sala 303

14:30-16:00

Alex Diment, Wildlife Conservation Society;
Adrian Reuter, Wildlife Conservation Society

For most threatened species, overharvesting is the primary threat, with hunting for the illegal wildlife trade the predominant risk for many iconic species. This threat is particularly acute in Asia, but is increasingly spreading to become a global concern. Effective measures to address the trade chain, from supply through to demand, are urgently needed. This Symposium will take a wide-ranging approach to addressing illegal wildlife trade and trafficking, sharing approaches, reflections and key considerations across Asia and Latin America, from diverse sectors and a range of levels. Evidence-based interventions and methods will be presented, to identify effective means for reducing the impacts of wildlife trade and trafficking on biodiversity and wild populations.



Presenters will take an interdisciplinary and inter-agency approach, and include scientists and criminologists, NGO professionals, and government officials.

Setting the scene: An overview of Wildlife Trafficking across Latin America

Adrian Reuter, Wildlife Conservation Society

What doesn't work against wildlife trafficking? Learning from Asia

Alex Diment, Wildlife Conservation Society

What the 'War on Drugs' and Prohibition can tell us about countering the illegal wildlife trade

Simon Hedges, Wildlife Conservation Society

Development of a National Strategy to Combat Wildlife Trafficking: The Peru experience

Jessica Galvez Durand, Servicio Nacional Forestal y de Fauna Silvestre (SERFOR)

Integrated technology for improving effectiveness of management of poaching in protected areas

Antony Lynam, Wildlife Conservation Society - Center for Global Conservation; Richard Bergl, North Carolina Zoo; Drew Cronin, SMART Partnership; Chris Gordon, Zoological Society of London; Jonathan Palmer, Wildlife Conservation Society - Center for Global Conservation; Emma Stokes, Wildlife Conservation Society - Center for Global Conservation

Building capacities to improve counter wildlife trafficking efforts in Peruvian borders

Yovana Murillo Vega, Wildlife Conservation Society (WCS)

Evaluating the Effectiveness of Efforts to Combat the Illegal Wildlife Trade

Hannah O'Kelly, Independent; Simon Hedges, Wildlife Conservation Society



THURSDAY SESSIONS



CARTAGENA, COLOMBIA JULY 23-27, 2017
Insights for sustaining life on Earth



MONDAY 24 JULY 2017

M



TUESDAY 25 JULY 2017

Tu



WEDNESDAY 26 JULY 2017

W



THURSDAY 27 JULY 2017

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THURSDAY 27 JULY 2017

SCHEDULE AT A GLANCE

LOBBY LEVEL					LEVEL 2B										LEVEL 3					
Registration	Comercial Area	BO	Childcare	Press	Networking	BO	Office	BO	Plenary	BO	BO	BO	BO	BO	BO	BO	BO			
	Portico Registro	Claustro de las Animas	Sala 103	Sala 102	Sala 101	Hall de exposiciones	Secretaría General	Sala VIP II	Arsenal	Gran Salon Barahona	Barahona 1	Barahona 2	Barahona 3 (livestreaming and translation room)	Barahona 4	Sala 301	Sala 302	Sala 303	Sala 304		
Capacity in Auditorium			70	20	30				130		130	1500	250	283	386	360	70	100	100	100
7:30	CCC Opening																			
8:00																				
8:30																				
9:00																				
9:30	Coffee																			
10:00			Symposium 243: What are the triggers for people to choose a sustainable lifestyle						Contributed talks 49: Threatened species management and recovery 2		Speed talks 13 Reefs and Oceans	Speed talks 14 Insights	Speed talks 15 Species distributions	Speed talks 16 Threats to and conservation of avifauna	Symposium 233: Monitoring invisible places: Eco-acoustics in marine and freshwater environments	Symposium 222: Co-benefits as incentives for conservation in human-dominated landscapes	Symposium 191: Challenges and opportunities in using a biocultural diversity conservation framework	Roundtable: How the knowledge reaches the communities to make decisions about the conservation in their territories?		
10:30																				
11:00																				
11:30			Contributed talks 47: Biodiversity inventory and monitoring 3 (7)			Knowledge Café 5: Conservation priorities and practice			Symposium 207: Critically examining 'success' - Session II: How accountable success stories are to local realities		Contributed talks 51: Threatened species management and recovery 3		Contributed talks 50: Conservation in a changing climate 3	Symposium 211: Other Effective Area-Based Conservation Measures Advances in Colombia	Symposium 219: Tenure security and nature conservation A driver or solution for conservation	Symposium 169: The role of forest plantations in biodiversity conservation	Symposium 216: 21st Century Science Leadership in Conservation Biology	Contributed talks 52: Conservation planning and prioritization 2	Contributed talks 53: Ecology and behaviour 2	
12:00																				
12:30																				
13:00					Religion and conservation biology WG									Diversity committee forum 3: Race, Class, Gender, and Conservation						
13:30																				
14:00	Lunch		W 162 Starting and Supporting Local Chapters within SCB						W 171 Civic Engagement in Conservation Biology		W 33 Implementation of a two-sex, nonlinear, age-structured metapopulation PVA web app	W 106 The Road Ahead: wildlife connectivity around linear infrastructure		W 44 Innovative Tools and Approaches for Ecosystem Risk Assessment in Latin America	W 128 Got Capacity? Evaluating capacity development activities to show impact	W 76 Transboundary conservation in Latin America and the Caribbean: from segmentation to synergy	W 192 Discover, Map, and Collaborate: Applying Spatial Data to Conservation Challenges Using Online Tools	W 183 Integrating sanctuaries into national conservation strategies for the conservation of wild apes		
14:30			Symposium 237: What are we willing to lose reframing adequacy to achieve conservation outcomes			Knowledge Café 6: New frontiers			Symposium 200: Critically examining 'success' - Session III: Inter-disciplinary approaches to measuring success		Symposium 235: Conservation and storytelling in a post-truth world									
15:00															Symposium 232: Advances in assessing effectiveness of conservation policies Latin America	Contributed talks 56: Communicating and learning from existing conservation projects (7)	Symposium 224: Global Connectivity Conservation Designation and Design	Contributed talks 54: Ecology, landscape and spatial ecology 2		
15:30																				
16:00																				
16:30									Coffee break + SCB Members meeting											
17:00									Closing Plenary											
17:30																				
18:00																				
18:30-23:30	Closing Ceremony																			



THURSDAY SESSIONS

SYMPOSIUM

WHAT ARE THE TRIGGERS FOR PEOPLE TO CHOOSE A SUSTAINABLE LIFESTYLE?

Sala 103

10:00-11:30

Karla Pelz Serrano, Universidad Autónoma Metropolitana Lerma; Rurik List, Universidad Autónoma Metropolitana; Patricia Manzano Fischer, UAM Lerma

In the last 100 years humans have damaged the Earth more than ever since Homo sapiens started its evolutionary path. However, besides the technological advances from this last century, there is one primary factor of environmental degradation which can be addressed at the individual level: the lifestyle. Earth will not be able to sustain the lifestyle most people is having or aspiring to have. It is well documented that if we do not change our daily habits, if we do not reduce our ecological footprint, upcoming generations or even current ones will not have access to the same resources we have today. As conservationists, we have a huge responsibility of being role models for people that do not have the information we do. We need to be consistent with what we preach. If we, conservationists do not have a more sustainable lifestyle, what can we expect from people that are not aware of the consequences of our daily choices? We need to understand which are the triggers that promote changes in people to adopt more sustainable lifestyles. The objective of this symposium is to explore different scenarios or cases, from rangeland, fisheries, economics, consumerism and psychology, in which conservation strategies have worked to change people's choices for different and more sustainable practices. To

try to understand what are the strategies or tools used to change people's actions towards a more sustainable lifestyle. This will be a forum to discuss what are the approaches that have worked in specific cases, and how can be applied in a daily life.

The current trend in conservationists' lifestyle: Are we congruent with what we preach?

Karla Pelz Serrano, Universidad Autónoma Metropolitana Lerma; Rurik List, Universidad Autónoma Metropolitana; Patricia Manzano Fischer, UNAM

Researching beliefs to design behavioral change interventions, a path towards sustainability

Patricia Manzano Fischer, UNAM

Opportunities and challenges for sustainability in small-scale fisheries embedded in protected areas

Ana Cinti, Centro para el Estudio de Sistemas Marinos, Puerto Madryn, Chubut, Argentina; Luisa Ramírez, Wilfrid Laurier University, Waterloo, Ontario, Canada; Jaime Aburto, Universidad Católica del Norte, Coquimbo, Chile; Daniela Alarcon, Universidade Estadual de Santa Cruz, Ilhéus, Bahia, Brazil; Mauricio Castrejón, Dalhousie University, Halifax, Nova Scotia, Canada; Francisco Fernández, Comunidad y Biodiversidad, Asociación Civil, Guaymas, Sonora, México; Stuart Fulton, Comunidad y Biodiversidad, Asociación Civil, Guaymas, Sonora, México; Luciana Loto, Universidade Federal Fluminense, Niterói, Rio de Janeiro, Brazil; José María Orensanz, Centro para



el Estudio de Sistemas Marinos, Puerto Madryn, Chubut, Argentina; Ana Parma, Centro para el Estudio de Sistemas Marinos, Puerto Madryn, Chubut, Argentina; Mario Rueda, Instituto de Investigaciones Marinas y Costeras, Santa Marta, Magdalena, Colombia

The impact of Environmental Education Programs on Wildlife Population

Samridhi Shrestha, Grand Canyon University

Panel Discussion

SYMPOSIUM

CRITICALLY EXAMINING ‘SUCCESS’ - SESSION I: EXPLORING THE POLITICS OF HOW ‘SUCCESS’ IS CONSTRUCTED

Secretaría General

10:00-11:30

Josie Chambers (University of Cambridge), Robert Fletcher (Wageningen University), Chris Sandbrook (UNEP World Conservation Monitoring Centre)

Among conservation projects, the narrative of ‘win-win’ success for people, biodiversity, and climate change is commonplace. Yet, efforts to probe these notions of ‘success’ often expose unintended impacts and local contestations, such as the leakage of deforestation into other areas and exacerbated social inequalities. These contradictory accounts emerge from divergent practices for prioritizing and interpreting outcomes in ways which best serve particular aims. This three-part symposium seeks to critically examine how and why conservation project ‘success’ narratives can become unrepresentative of local realities, and how interdisciplinary approaches can help improve accountability. Session I focuses on the underlying political dynamics, common practices and assumptions which can facilitate a significant mismatch between interveners’ perspectives of project ‘success’ and local realities. The speakers explore the potential to reframe outcome-focused narratives of ‘success’ as broader on-going adaptive socio-political processes to improve their local accountability.

Examining ‘success’ in Water Fund Conservation Arrangements in Ecuador’s Andes

Audrey Joslin (Kansas State University)

The pursuit of ‘win-win’ success for forests and people in the Peruvian Amazon

Josie Chambers (University of Cambridge)

Adaptive social impact management for conservation

Nathan Bennett (University of British Columbia); Maery Kaplan-Hallam (UBC)

Conservation through a communication frame: valuing the journey and the destination

Ruth O’Connor (Australian National University); Joan Leach (Australian National University); Lilly Lim-Camacho (CSIRO); Fabien Medvecky (University of Otago); Jeanne Nel (Nelson Mandela Metropolitan University)

Achieving ‘no net loss’ with development led conservation? Win-win logics and performing success (video presentation)

Louise Carver (Birkbeck, University of London)

Panel Discussion

12-MINUTE TALKS

THREATENED SPECIES MANAGEMENT AND RECOVERY 2

Arsenal

10:00-11:30

Selecting juvenile giant pandas for assisted soft release programs

Ramana Callan, Chengdu Research Base of Giant Panda Breeding

First population density estimation and guidelines for community monitoring of *P. caquetensis*

Johana Villota, Centro Internacional de Agricultura Tropical (CIAT); Javier García, Fundación Herencia Natural; Javier Enrique García Villalba, Fundación Herencia Natural

Loss of Baltic salmon populations can severely reduce the capacity for retaining genetic variation

Sara Kurland, Stockholm University; Ola Hössjer, Stockholm University; Linda Laikre, Stockholm University; Nils Ryman, Stockholm University

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Nesting success of woodland birds in box-gum grassy woodland restoration plantings

Donna Belder, Australian National University

Conserving the last viable population of the Critically endangered *Atelopus varius* in Costa Rica

María Del Rocío Seisdedos De Vergara, ProCAT International; Diego A. Gomez-Hoyos, ProCAT International; José González-Maya, ProCAT Colombia, Sierra to Sea Costa Rica; Jan Schipper, Arizona Center for Nature Conservation & Phoenix Zoo

SNP genotyping to monitor wild tigers for conservation

Meghana Natesh, National Center for Biological Sciences; Elizabeth Hadly, Stanford University; Dmitri Petrov, Stanford University; Stefan Prost, Stanford University; Uma Ramakrishnan, National Center for Biological Sciences; Ryan Taylor, Stanford University

Statistical modelling and field work to estimate population size - case study on dry forest birds

Christian Devenish, Manchester Metropolitan University; Stuart Marsden, Manchester Metropolitan University; Elio Nuñez Cortéz, Naturaleza y Cultura Internacional

Managing human-wildcat conflict in Colombia

Carlos Valderrama Vasquez (Panthera & WebConserva)

Dynamic management tool to reduce bycatch of critically endangered Pacific leatherback turtles

George Shillinger, The Leatherback Trust; Aimee Hoover, University of Maryland Center for Environmental Science; Helen Bailey, University of Maryland Center for Environmental Science; Dong Liang, University of Maryland Center for Environmental Science

Public Aquariums How Sub-aquatic Biodiversity Encounters Could Help Conservation Efforts

Deborah Cracknell, National Marine Aquarium; Michael Depledge, European Centre for Environment and Human Health; Sabine Pahl, University of Plymouth; Mathew White, European Centre for Environment and Human Health

Assessing whether existing shallow reef focused management provides protection for mesophotic reefs

Erika Gress, Conservation Leadership Program; Maria Arroyo-Gerez, Conservation Leadership Programme; Dominic Andradi-Brown, University of Oxford

Integrated ecosystem assessments in the marine realm the video proves its worth

Maud Mouchet, MNHN; Dorothee Kopp, Ifremer; Laurène Merillet, Ifremer; Marianne Robert, Ifremer; Michèle Salaün, Ifremer

Marine resource management and social-ecological vulnerability to climate change in the Caribbean

Katherine Siegel, UC Berkeley; Reniel Cabral, UC Santa Barbara; Sarah Lester, Florida State University; Jennifer McHenry, Florida State University; Elena Ojea, University of Vigo; Brandon Owashi, UC Santa Barbara

Combatting the Illegal Trade in Sea Turtle Eggs by Using GPS Trackers Planted in Dummy Eggs

Kimberly Williams-Guillen, Paso Pacifico; Sarah Otterstrom, Paso Pacifico

Coral Reef Grazers: Effects Of Climate Change On Embryos And Larvae Of Sea Hares (Mollusca)

Yolanda Chavez, Fundacion Tangare

5-MINUTE TALKSS

REEFS AND OCEANS

Barahona 1
10:30-11:30

Anticipating future changes to connectivity in marine protected areas

Melinda Coleman, NSW Department of Primary Industries; Paulina Cetina Heredia, University of New South Wales; Ming Feng, CSIRO; Brendan Kelaher, Southern Cross University; Moninya Roughan, University of New South Wales; Erik van Sebille, Imperial College London



5-MINUTE TALKS

INSIGHTS

Barahona 2
10:30-11:30

Friends and Family Software for identifying unrelated individuals from molecular marker data

Deon De Jager, University of Pretoria; Paulette Bloomer, University of Pretoria; Cindy Harper, University of Pretoria; Petrus Swarts, University of Pretoria

Implications of different population model structures for management of threatened plants

Helen Regan, University of California Riverside; Kurt Anderson, University of California, Riverside; Clara Bohorquez, University of California Riverside; David Keith, Centre for Ecosystem Science, University of NSW; Tracey Regan, Arthur Rylah Institute for Environmental Research, The Department of the Environment

Identifying trade-offs among recreational ecosystem services in urban green spaces

Marie Dade, University of Queensland; Greg Brown, California Polytechnic State University; Jonathan Rhodes, The University of Queensland

WILDLABS.NET Networking on Conservation Technologies to Enhance Conservation Outcomes

Stephanie O'Donnell, Fauna & Flora International

Using Design Principles and Customer Development for Scalable Conservation Solutions

Cassie Hoffman, Conservation X Labs

Potential for card ranking methods to understand consumer demand for wildlife trade case Discus

Anita KY Wan, University of Kent; David Roberts, University of Kent; Diogo Verissimo, Johns Hopkins University; Noreen von Cramon-Taubadel, University at Buffalo; Ian Watson, University of Kent

Densities as indicators of threat level and conservation needs of threatened fruit bats on islands.

Tammy Mildenstein, Cornell College

Integrating in situ ex situ and circa situm conservation of wild Vanilla species in Colombia.

Nicola Flanagan, Pontificia Universidad Javeriana, Cali; Paul Chavarriaga, Centro Internacional de Agricultura Tropical; Ana Teresa Mosquera-Espinosa, Pontificia Universidad Javeriana, Cali

Claylicks as key resources for the study of Tayassu pecari in the Tambopata National Reserve Peru

Paloma Alcazar Garcia, Centro de Ornitología y Biodiversidad; Nancy Carlos Erazo, Centro de Ornitología y Biodiversidad; Clifton Carter, Centro de Ornitología y Biodiversidad

5-MINUTE TALKS

SPECIES DISTRIBUTIONS

Barahona 3 (livestreaming and live translation)
10:30-11:30

UK biodiversity change a study of 11000 species from 28 taxonomic groups

Charlie Outhwaite, Centre for Ecology & Hydrology/ University College London

Socioeconomic Factors Associated with the Distribution of an Invasive Tree in Hawaii

Rebecca Niemiec, Stanford University Emmett Interdisciplinary Program in Environment and Resources; Nicole Ardoin, Stanford University; Gregory Asner, Carnegie Institution; Philip Broderick, Carnegie Institution

Surveying Bat Populations Along Driving Transects A Comparison of Methods

Aaron Hogue, Salisbury University; Andrew McGowan, Delaware Center for the Inland Bays

Climate Change potential effects on huemul deer distribution and abundance in southern South America

Paulo Corti, Instituto de Ciencia Animal, Universidad Austral de Chile; Carlos Riquelme, Magister en Ecología Aplicada, Universidad Austral de Chile; Rafael Contreras, CONAF Región de Magallanes; Sergio Estay, Instituto de Cs Ambientales y Evolutivas, Universidad Austral de Chile; Rodrigo López, Aumen ONG; Hernán Pastore,



APN Delegación Regional Patagonia; Mauricio Soto-Gamboa, Instituto de Cs Ambientales y Evolutivas, Universidad Austral de Chile

Distribution and survival of a rare mammal the Pacarana *Dinomys branickii*

Carlos Saavedra, Wildlife Conservation Society; Juan David Corrales Escobar, Wildlife Conservation Society; Juan Corrales, Wildlife Conservation Society; Alan Giraldo, Universidad del Valle; Gustavo Kattan, Universidad Javeriana Cali

Promoting citizen science in agricultural landscapes Increasing data useful for bird conservation

Eduardo Alexandrino, Escola Superior de Agricultura "Luiz de Queiroz", University of Sao Paulo; Alex Bovo, Escola Superior de Agricultura "Luiz de Queiroz", University of Sao Paulo; Maristela Camolesi, Universidade Federal de Sao Carlos, Campus Sorocaba; Katia Ferraz, Escola Superior de Agricultura "Luiz de Queiroz", University of Sao Paulo; Ana Navarro, Escola Superior de Agricultura "Luiz de Queiroz", University of Sao Paulo; Valdir Paulete, Universidade Metodista de Piracicaba; Cagan Sekercioglu, University of Utah

Forest cover thresholds of African ant-following birds in agroforestry and oil palm systems

Carolina Ocampo Ariza, Georg-August Universität Göttingen; Kadiri Serge Bobo, University of Dschang; Denis Kupsch, Georg-August Universität Göttingen; Francis Motombi Njie, Limbe Botanical Garden, Cameroon; Matthias Waltert, Georg-August-Universitaet Goettingen

Occupancy of a habitat specialist: Woodland structure & occurrence of a Near-threatened lovebird

Tiwonge Gawa, Museums of Malawi

Mammals of Las Piedras River Ecology and Conservation in a changing landscape

Caterina Cosmopolis, Universidad Nacional Agraria La Molina

5-MINUTE TALKS

THREATS TO AND CONSERVATION OF AVIFAUNA

Barahona 4
10:30-11:30

Water and the conservation of wide-ranging Forest Red-tailed Black-Cockatoos in a drying climate

Michael Craig, University of Western Australia; Richard Hobbs, University of Western Australia; Tony Kirkby, Western Australian Museum; Michael Renton, University of Western Australia; Vicki Stokes, Alcoa of Australia

Temporal changes in avian abundance-occupancy relationships over 40 years

Lisa Manne, City University of New York; Shannon Curley, Graduate Center, City University of New York; Richard Veit, CUNY, College of Staten Island

Physiology and survival of yellow warblers wintering in natural and agricultural habitats in Mexico

Simon Valdez Juarez, Simon Fraser University

Evolution of Species Extinction Risk for the Birds of Colombia 2002 - 2016

Luis Miguel Renjifo, Pontificia Universidad Javeriana; Angela María Amaya-Villarreal, Pontificia Universidad Javeriana

Understanding disease to protect Galapagos endemic avifauna

Maricruz Jaramillo, University of Missouri - Saint Louis; Patricia Parker, University of Missouri St.Louis, Wildcare Institute Saint Louis Zoo; Sage Rohrer, University of Missouri - Saint Louis

Are we conserving the habitats required by migratory shorebirds adequately at the local level

Chi Yeung Choi, The University of Queensland; Richard Fuller, University of Queensland; He-Bo Peng, University of Groningen



Rare birds logging and local economy in the Biaowiea Forest Poland

Wieslaw Walankiewicz, Siedlce University of Natural Sciences and Humanities; Dorota Czeszczewik, Siedlce University of Natural Sciences and Humanities; Agnieszka Ginter, Siedlce University of Natural Sciences and Humanities;

The avian scavenger crisis Extinctions trophic cascades and loss of critical ecosystem functions

Cagan Sekercioglu, University of Utah; Evan Buechley, University of Utah

Characterization of the birds present in the islands of the district of Cartagena, Bolívar, Colombia

Harold Gomez, University of Cartagena

SYMPOSIUM

MONITORING INVISIBLE PLACES: ECO-ACOUSTICS IN MARINE AND FRESHWATER ENVIRONMENTS

Sala 301
10:00-11:30
Simon Linke, Griffith University

This interdisciplinary session will focus on acoustic monitoring in rivers, lakes and oceans - environments in which biodiversity and condition monitoring has proven even more difficult than their terrestrial counterparts. Traditional methods of aquatic survey techniques a) bear risks to the health of the organisms, b) introduce bias and c) only assess populations at single times instead of continuously and d) incur high costs, particularly in remote areas. Acoustic monitoring - a noninvasive, continuous real-time technique can address all of the above issues. So far mainly discussed at specialist conferences, this session will review progress and challenges in this new field, with three talks each about marine and freshwater projects from France, Ireland, Australia and Africa. The session is pitched at both the growing number of eco-acoustic researchers and practitioners in SCB, but also at conservation practitioners who want to learn more about using underwater acoustics as a monitoring tool. After an introduction into freshwater eco-acoustics, we will discuss spatio-temporal sampling problems for freshwater monitoring - a talk later matched by a marine presenter. The remaining three talks introduce

examples in automatic detection of single aquatic species, soundscape monitoring as well as study design - three key considerations in bioacoustics. All major groups of soniferous aquatic organisms will be covered: Cetaceans, fish and invertebrates.

Underwater ecoacoustics as a monitoring tool in freshwater environments

Camille Desjonqueres, Muséum national d'Histoire naturelle; Toby Gifford, Griffith University; Simon Linke, Griffith University; Fanny Rybak, Université Paris-Sud; Jérôme Sueur, Muséum national d'Histoire naturelle

A spatio-temporal sampling problem: Variation in river soundscapes complicates ecosystem monitoring

Simon Linke, Griffith University; Simon Linke, Griffith University; Camille Desjonqueres, Paris National History Museum/University of Wisconsin; Toby Gifford, Monash University; Christopher Karaconstantis, Griffith University

Rich composition and curious dynamics of a tropical wetland soundscape

Benjamin Gottesman, Purdue University Center for Global Soundscapes; Emma Beck, Purdue University Center for Global Soundscapes; Kristen Bellisario, Purdue University Center for Global Soundscapes; Taylor Broadhead, Purdue University Center for Global; Dante Francomano, Purdue University Center for Global Soundscapes; Amandine Gasc, Center for Global Soundscapes; Maryam Ghadiri, Purdue University Center for Global Soundscapes; Cristian Graupe, Purdue University Center for Global Soundscapes; Javier Lenzi, Purdue University Center for Global Soundscapes; Hishem Omrani, Purdue University Center for Global Soundscapes; Bryan Pijanowski, Purdue University Center for Global Soundscapes; Jack Vanschaik, Purdue University Center for Global Soundscapes; Zhao Zhao, Purdue University Center for Global Soundscapes

Where the Noisy Things Are: Examining spatio-temporal patterns in underwater soundscapes

Sarah Marley, Centre for Marine Science and Technology (CMST), Curtin University; Christine Erbe, Centre for Marine Science and Technology (CMST), Curtin University; Iain Parnum, Centre for Marine Science and Technology (CMST), Curtin



University; Miles Parsons, Centre for Marine Science and Technology (CMST), Curtin University; Chandra Salgado Kent, Centre for Marine Science and Technology (CMST), Curtin University

Analysing detection probabilities of baleen whales to develop passive acoustics monitoring protocols

Angela Recalde Salas, Centre for Marine Science and Technology, Curtin University; Christine Erbe, Centre for Marine Science and Technology, Curtin University; Robert McCauley, Centre for Marine Science and Technology, Curtin University; Hugh Possingham, The University of Queensland; Chandra Salgado Kent, Centre for Marine Science and Technology, Curtin University

Acoustic environment: context to understand the ecology of marine biodiversity in the Alaskan Arctic

Melania Guerra, CIMAR/Universidad de Costa Rica

SYMPOSIUM

CO-BENEFITS AS INCENTIVES FOR CONSERVATION IN HUMAN-DOMINATED LANDSCAPES

Sala 302

10:00-11:30

Peter Arcese, University of British Columbia; Nina Morrell, University of British Columbia; Amanda Rodewald, Cornell University

Global protected areas have expanded rapidly in pursuit of the Convention on Biodiversity Aichi Target 11 to conserve a representative 17% of terrestrial and inland waters ecosystems, and Target 12 to prevent the loss of threatened species. But business as usual reserve selection and historic biases for unproductive landscapes still limit efficient investment in conservation. In Canada, for example, a country where roughly 89% of land mass is 'crown land', meeting CBD targets has been particularly challenging despite doubling the extent of protected areas since 1995. Unfortunately, new protected areas on public lands have done little to protect Canada's 600 at-risk species, because $\approx 60\%$ of them occupy human-dominated landscapes where protected areas remain rare and small on average. This problem is common to virtually all nations given the confluence of human

development, ecosystem productivity and native species richness. Thus, a key challenge to conserving global biodiversity is to develop tools to incentivize conservation where competing interests and values are at play. This symposium highlights novel approaches to strategic planning in human-dominated landscapes to emphasise multiple values and the development of markets for conservation co-benefits to overcome social and economic barriers to conservation.

Reducing carbon emissions and attaining co-benefits from timber production landscapes in Borneo

Rebecca Runting, The University of Queensland; Oscar Venter, University of Northern British Columbia

Robust strategies for carbon policies to maximise biodiversity co-benefits

Elizabeth Law, University of Queensland; Brett Bryan, Deakin University; Tim Capon, CSIRO; Rochelle Christian, Department of Environment, Australia; Shaun Cunningham, Deakin University; Sue Eber, WWF; Marit Kragt, UWA; Martin Nolan, CSIRO; Michael Perring, UWA; Anna Renweick, University of Queensland; Rebecca Runting, University of Queensland; Kerrie Wilson, University of Queensland

High complementarity in biodiversity, riparian and carbon values: tax-shifting pays in three ways

Peter Arcese, University of British Columbia; Elizabeth Law, University of Queensland; Tara Martin, Dept of Forest Sciences; Amanda Rodewald, Cornell Lab of Ornithology; Richard Schuster, University of British Columbia; Kerrie Wilson, University of Queensland

Environmental co-benefits of habitat conservation for Andean bears

Nina Morrell, University of British Columbia; Robyn Appleton, Spectacled Bear Conservation Society; Peter Arcese, University of British Columbia; Richard Schuster, University of British Columbia

Payments for Ecosystem Services: Rife with Problems and Potential—for Sustainability

Alejandra Echeverri, Institute for Resources, Environment, and Sustainability - UBC; Kai Chan, University of British Columbia;

Discussion



SYMPOSIUM

CHALLENGES AND OPPORTUNITIES IN USING A BIOCULTURAL DIVERSITY CONSERVATION FRAMEWORK

(Diversity, Equity and Inclusion Journey)

Sala 303

10:00-11:30

Fabrizio Frascaroli, University of Zurich; Rick Stepp,
University of Florida

This symposium explores challenges and future directions in linking the conservation of biological and cultural diversity. The notion of biocultural diversity has been gaining traction for over a decade. Among else, it provides a robust and empirically tested framework for integrating environmental and human dimensions in conservation. Yet, biocultural approaches still face a number of difficulties. Firstly, there are no definitive methods or guidelines for translating a biocultural framework into actual conservation initiatives.

Further, the success of biocultural conservation often depends on involving groups that have been long underrepresented in conservation, like indigenous people and faith communities. This requires specific strategies of engagement and a level of disciplinary integration that is still uncommon for most scientific and implementation projects. Securing institutional support and funding for interdisciplinary projects also remains problematic, in spite of growing attempts to redress this issue. Finally, legal and policy mechanisms need to be further developed to promote biocultural conservation schemes at different scales.

The symposium reviews these and other challenges through selected presentations. Enough time is also allocated to discussing responses and strategies that can advance biocultural approaches in research and implementation. The future of conservation largely hinges on creating broader coalitions and delivering long-lasting solutions. Biocultural approaches offer critical opportunities in this sense, whose timeliness and potential must be seized.

The Importance of Ethnobiological Knowledge to Conservation

John Stepp, University of Florida

Changing Tides: Evolution of Community-Based Conservation towards Spiritual Ecology

Dekila Chungyalpa, YETI, Yale University

Intangible values meet monetary constraints: economic implications in biocultural conservation

Fabrizio Frascaroli, University of Bologna; Thora Fjeldsted, Lom Research

Biocultural approaches to sustainability indicator development: opportunities and challenges

Eleanor Sterling, Center for Biodiversity and Conservation, American Museum of Natural History; Erin Betley, Center for Biodiversity and Conservation, American Museum of Natural History; Kate Burrows, Yale School of Forestry & Environmental Studies; Sophie Caillon, National Center for Scientific Research; Katherine Careaga, Center for Biodiversity and Conservation, American Museum of Natural History; Joachim Claudet, National Center for Scientific Research-CRIOBE; Georgina Cullman, Center for Biodiversity and Conservation, American Museum of Natural History; Rachel Dacks, Department of Biology, University of Hawaii at Manoa; Christopher Filardi, Conservation International; Nadav Gazit, Center for Biodiversity and Conservation, American Museum of Natural History; Stacy Jupiter, Wildlife Conservation Society; Joe McCarter, Center for Biodiversity and Conservation, American Museum of Natural History; Manuel Mejia, The Nature Conservancy; Christian Rivera, Department of Ecology, Evolution, and Environmental Biology, Columbia University; Amanda Sigouin, Center for Biodiversity and Conservation, American Museum of Natural History; Tamara Ticktin, Department of Botany, University of Hawaii at Manoa; Anne Toomey, Pace University

Panel discussion

11h

SPECIAL ROUNDTABLE

HOW THE KNOWLEDGE REACHES THE COMMUNITIES TO MAKE DECISIONS ABOUT THE CONSERVATION IN THEIR TERRITORIES?

Sala 304

10:00-11:30

Elsa Matilde Escobar, Executive Director Fundación Natura Colombia

The Biological Resources Research Institute "Alexander von Humboldt", the Amazonian Research Institute "SINCHI" and the Coastal and Marine Research Institute Invemar are nonprofit civil corporations, which aim to develop scientific and technological research that contributes to the improvement and preservation of the quality of the environment and the sustainable use of natural resources, and to provide scientific and technical support to the Ministry of the Environment for the fulfillment of its functions. For more than 25 years the institutes have generated important information about the state of natural resources in their areas of influence and on how to support efforts for the conservation and sustainable use of Colombian biodiversity. However, sometimes it is not easy that the information reach the communities so that they can make decisions about the creation, maintenance and management of their conservation areas, especially considering that ethnic communities own around 30 % of the territory where a large part of the country's biodiversity is housed. The symposium seeks to understand the different strategies they have for the information to reach the communities and to be used for decision making and how the institutes help in the creation and / or management of community conservation areas. *Special guests: Ivonne Caicedo representing the Inter-Ethnic Forum Solidarity Chocó FISCH; and Mateo Estrada representing OPIAC, The Colombian Amazon National Organization of the Indigenous Peoples.*

With contributions from Luz Marina Mantilla, Director of the Amazon Research Institute Sinchi; Brigitte Baptiste, Director of the Alexander von Humboldt Research Institute; Francisco Arias, Director of the Invemar Coastal Marine Research Institute

12-MINUTE TALKS

BIODIVERSITY INVENTORY AND MONITORING 3

Sala 103

11:30-13:00

Tree diversity patterns and conservation priorities in central-northern South American dry forests

Karina Banda R, Royal Botanic Garden Edinburgh/
Fundacion ESC

Bioacoustic monitoring of Neotropical oil palm landscapes

Paul Furumo, University of Puerto Rico-Rio Piedras; T. Mitchell Aide, University of Puerto Rico-Rio Piedras

Serranías de Guaviare, Colombia: Rapid Inventory, Conservation, Campesinos, and the Peace Process

Lesley de Souza, The Field Museum; Corine Vriesendorp, The Field Museum; Alejandra Salazar, Fundacion para la Conservacion y Desarrollo Sostenible; Diana Alvira, The Field Museum; Arelis Arciniegas, CDA; Rodrigo Botero, Fundación para la Conservación y Desarrollo Sostenible; Pablo Rodriguez, PNN, GEF Corazon de la Amazonia

Empty niches after extinctions increase population sizes of modern corals

Carlos Prada (STRI); Nancy Budd (University of Iowa); Michael DeGiorgio (The Pennsylvania state university); Roberto Iglesias-Prieto (The Pennsylvania state university); Keneth Johnson (National History Museum); Nancy Knowlton (Smithsonian National Museum of Natural History); Don Levitan (Florida State University); Monica Medina (The Pennsylvania state university); John Pandolfi (University of Queensland); Cheryl Woodley (NOAA)

High-risk and high-return PhD research on little-known species in a little studied area

Ai Suzuki, Kyoto University

Modern tools reveal the importance of marsh to Chinook salmon in the Fraser River estuary Canada.

Lia Chalifour, University of Victoria; Julia Baum, University of Victoria; Misty MacDuffee, Raincoast Conservation Foundation; David Scott, Raincoast Conservation Foundation

Oil Palm as an emerging driver of deforestation in the Peru Implications for Biodiversity

Varsha Vijay, Duke University; Stuart Pimm, Duke University; Chantal Reid, Duke University

Safeguarding space for nature securing our future developing a post-2020 strategy for the CBD

Noelle Kumpel, Zoological Society of London

What comes to our mind when we think about biodiversity?

Raúl Rodríguez-Cano, Pontificia Universidad Javeriana

Developing a modern research agenda for urban conservation

Lauren Bailey (Society for Conservation Biology); Travis Gallo (Urban Wildlife Institute, Lincoln Park Zoo); Megan Draheim (Virginia Tech Center for Leadership in Global Sustainability); László Kövér (University of Debrecen); Jayshree Vencatesan (Care Earth Trust); Marit Wilkerson (USAID)

KNOWLEDGE CAFÉ

CONSERVATION PRIORITIES AND PRACTICE

Hall de exposiciones
11:30-13:00

World Heritage sites Helping or hindering conservation

Wendy Jackson, New Zealand Department of Conservation; Jon Kohl, PUP Global Heritage Consortium; Alison Ormsby, University of North Carolina - Asheville

Conservation of biodiversity in the human-modified dry deciduous forests of Eastern Ghats in India

Suresh Jones, LORIS-The Biodiversity Conservation Society

How important is flexibility in conservation

Gwenllian Iacona, University of Queensland; Jonathan Rhodes, The University of Queensland

How can we bridge the gap between large-scale conservation vision and locally-applied action

Tom Akre, Smithsonian Conservation Biology Institute; Lara Lacher, Smithsonian Conservation Biology Institute

Elephant space-use and spatiotemporal overlap with crop-raiding occurrence in the Eastern Okavango

Jeremy Cusack (University of Stirling); Rocío Pozo (University of Oxford); Tim Coulson (University of Oxford); Graham McCulloch (Ecoexist Project); Anna Songhurst (Ecoexist Project); Amanda Stronza (Texas A&M University)

SYMPOSIUM

CRITICALLY EXAMINING ‘SUCCESS’ - SESSION II: HOW ACCOUNTABLE SUCCESS STORIES ARE TO LOCAL REALITIES

Secretaría General
11:30-13:00

Gert Van Hecken (University of Antwerp), Josie Chambers (University of Cambridge)

Among conservation projects, the narrative of ‘win-win’ success for people, biodiversity, and climate change is commonplace. Yet, efforts to probe these notions of ‘success’ often expose unintended impacts and local contestations, such as the leakage of deforestation into other areas and exacerbated social inequalities. These contradictory accounts emerge from divergent practices for prioritizing and interpreting outcomes in ways which best serve particular aims. This three-part symposium seeks to critically examine how and why conservation project ‘success’ narratives can become unrepresentative of local realities, and how interdisciplinary approaches can help improve accountability. Session II explores how well intervention narratives of ‘success’ and local realities align in practice, drawing on empirical evidence from Payment for Ecosystem Service projects and community-based conservation initiatives across Latin



America and Sub-Saharan Africa. The speakers seek to develop understandings of 'success' which move beyond superficial 'panacea' views and are rooted in the particularities of heterogeneous socio-ecological contexts.

Community participation in co-managed protected areas in Madagascar: from 'success' to reality

Caroline Ward (Sustainability Research Institute, University of Leeds)

The impact of benefit sharing programs on perceptions of development and conservation sentiment

Kyle Clifton (Texas A&M University)

Understanding the drivers and impacts behind the adoption of land sharing and land sparing models

Anca Serban (University of Cambridge)

Local communities' perception on protected area management: Case of Yankari Game Reserve, Nigeria

Salamatu Fada (Bangor University; Bauchi State Government); Danlami Garba (Bauchi State Government, Nigeria); Matt Hayward (Bangor University); Tuyeni Mwampamba (Universidad Nacional Autonoma de Mexico); Andrew Pullin (Bangor University)

Dissecting win-wins through the reinterpretation of PES 'success' stories in Nicaragua (video presentation)

Gert Van Hecken (University of Antwerp)

Panel Discussion

12-MINUTE TALKS

THREATENED SPECIES MANAGEMENT AND RECOVERY 3

Arsenal

11:30-13:00

Elite consumption threatens critically-endangered Pigeon the case of the Manumea

Rebecca Stirnemann, Australian National University, SCS and Forest and Bird; I. A. Stirnemann; D. Abbot; D. Biggs; R. Heinsohn

Estimating the population level impacts of anthropogenic at-sea threats to seabirds

Stephanie Borrelle, Institute of Applied Ecology New Zealand; Holly Jones, Northern Illinois University; Roberto Salguero-Gomez, University of Sheffield; David Towns, Department of Conservation

Spatial and seasonal effects on railway use and movement by grizzly bears in Banff National Park

Sonya Pollock, University of Alberta; Scott Nielsen, University of Alberta; Colleen Cassady St Clair, University of Alberta; Jesse Whittington, Parks Canada

Bairds Tapir Habitat Use in a Road-Fragmented Forest Complex in the Highlands of Costa Rica

Esteban Brenes-Mora, Nai Conservation

Using old and new data to rapidly identify extent and drivers of aquatic species population decline

Amber Pitt (Trinity College); Tina Delahunty (Bloomsburg University); Sean Hartzell (Bloomsburg University); Jamie Shinskie (Bloomsburg University); Joseph Tavano (Bloomsburg University)

Spacial distribution of muriquis in a fragmented landscape in Brazil

Danielle Moreira, Universidade Federal do Espírito Santo; Luana Centoducatte, Universidade Federal do Espírito Santo; Francisco Barreto, Universidade Federal do Espírito Santo; Sérgio Mendes, Universidade Federal do Espírito Santo

12-MINUTE TALKS

CONSERVATION IN A CHANGING CLIMATE 3

Barahona 1
11:30-13:00

Nowhere to Go Perceived barriers to the Use of Assisted Colonization for Climate Sensitive Species

Shannon Rivera, University of Hawaii

Assessment of the vulnerability of freshwater crayfish to climate change

Md Anwar Hossain (The University of Melbourne); Lucie Bland (The University of Melbourne); Monika Bohm (Institute of Zoology, Zoological Society of London); Mark Burgman (The University of Melbourne); José Lahoz-Monfort (The University of Melbourne)

Translocation of Hawaiian seabirds to high islands to mitigate effects of climate change

Eric Vanderwerf, Pacific Rim Conservation; Megan Dalton, Pacific Rim Conservation; C. Robby Kohley, Pacific Rim Conservation; Lindsay Young, Pacific Rim Conservation

Vulnerability assessments of Antarctic biodiversity and applications for conservation planning

Jasmine Lee, University of Queensland

A Global Assessment of Recent Environmental Change Impacts on Population Trends of Birds and Mammals

Fiona Spooner, UCL; Robin Freeman, Institute of Zoology; Richard Pearson, University College London

Agroforestry vs. Climate Change The Case of Coffee and Conservation

Robert Rice, Smithsonian Conservation Biology Institute

Leveraging graduate student interest and agency needs for climate change planning

Mark Schwartz, U of Ca - Enviro Sci & Pol

SYMPOSIUM

OTHER EFFECTIVE AREA-BASED CONSERVATION MEASURES ADVANCES IN COLOMBIA

(Citizen Science Journey)

Barahona 2
11:30-13:00

Carlos Arturo Saavedra Sr., Wildlife Conservation Society

The Aichi target 11 specifies that by 2020 at least 17 per cent of terrestrial and inland water and 10 per cent of coastal and marine areas are conserved through effectively and equitably managed ecologically representative and well-connected systems of protected areas and other effective area-based conservation measures and integrated into the wider landscapes and seascapes. However other effective area-based conservation measures OECM was not yet clearly defined by the time this target was adopted impeding the countries to report advances on this respect. Therefore efforts lead by IUCN have been focused on providing guidelines on the meaning of the term which have been recently released and are under evaluation with case studies from all over world. The aim of the symposium is to present the advances on this topic in Colombia through the analysis and discussion of several case studies identified in coordination between governmental institutions privates and non-profit organizations. These studies show the diversity of conservation initiatives and their particular contexts allowing to test OECM criteria for identify the need for adjustments and recommendation to the guidelines.

Conservation agreements and private conservation mechanisms in Colombia

Clara Solano, Fundacion Natura

Advances on the identification of other effective area-based conservation measures in Colombia

Alexandra Areiza-Tapias, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Sandra Galan, Fundación Natura; Clara Matallana, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Angela Santamaria, Resnatur; Clara Solano, Fundacion Natura

11

Species Conservation Programs and their contribution to other effective area-based conservation measures

Carlos Saavedra, Wildlife Conservation Society;
German Forero-Medina, Wildlife Conservation Society

Contribution of purchased public lands to biodiversity conservation in Colombia

Juan Gomez Candamil, Universidad de Los Andes; Clara Matallana, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt; Christoph Nolte, Boston University

The role of the Natural Reserves of Civil Society in the governance means in Conservation

Angela Marcela Santamaria, Resnatur

Panel discussion

SYMPOSIUM

TENURE SECURITY AND NATURE CONSERVATION A DRIVER OR SOLUTION FOR CONSERVATION

(Diversity, Equity and Inclusion Journey)

Barahona 3 (livestreaming and live translation)
11:30-13:00

Yuta Masuda, The Nature Conservancy

Land tenure insecurity can hinder conservation and human well-being goals, especially in many developing and tropical regions where conservation concerns are often highest. Land tenure security underpins the success many multilateral policy initiatives, including Reducing Emissions from Deforestation and Forest Degradation, the United Nations' Sustainable Development Goals, the Convention on Biological Diversity's Aichi Biodiversity Targets, and the International Platform for Biodiversity and Ecosystem Services. The conservation sector is now thinking about whether and how to better incorporate land tenure strategies into their work with an eye towards increasing conservation and human well-being. Yet the ways in which land tenure security interacts with conservation initiatives, large and small, remains poorly understood and implemented. Greater clarity and evidence is needed to unpack the complex relationship

between tenure security, conservation, and human well-being. Insights from this work have important implications for understanding when and how tenure insecurity drives, or is a solution to, conservation challenges. This symposium draws on scholars and practitioners from diverse fields to spur new ideas on how incorporating tenure security can advance conservation science, practice, and policy.

The land tenure gap and its influence on socio-ecological conditions

Yuta Masuda, The Nature Conservancy; Margaret Holland, University of Maryland, Baltimore County (UMBC); Allison Kelly, University of Washington

Mapping the Global Governance Context for Land Tenure Security

Allison Kelly, University of Washington; Margaret Holland, University of Maryland, Baltimore County (UMBC); Yuta Masuda, The Nature Conservancy

Untangling the effects of formalized tenure on forests and communities in the Ecuadorian Amazon

Margaret Holland, University of Maryland, Baltimore County (UMBC); Kelly Jones, Colorado State University; Lisa Naughton, University of Wisconsin-Madison

A field experiment testing interventions to promote conservation practices on rented croplands

Chloe Wardropper, Purdue University, The Nature Conservancy; Sheila Walsh Reddy, The Nature Conservancy; Randy Dell, The Nature Conservancy; Francis Eanes, Purdue University; David Harlan, David Harlan; Yuta Masuda, The Nature Conservancy; Linda Prokopy, Purdue University; Pranay Ranjan, Purdue University

Systematic Review: Indigeneity, communal tenure, and socio-ecological conditions on forested lands

Samuel Dupre, University of Maryland, Baltimore County; Joel Baker, University of Maryland, Baltimore County (UMBC); Amy Duchelle, Center for International Forestry Research (CIFOR); Margaret Holland, University of Maryland, Baltimore County (UMBC); Steven Lawry, Center



for International Forestry Research; Yuta Masuda, The Nature Conservancy; Brian Robinson, McGill University

Panel discussion

SYMPOSIUM

THE ROLE OF FOREST PLANTATIONS IN BIODIVERSITY CONSERVATION

Barahona 4
11:30-13:00

Gabriel Castaño, Universidad de Caldas; Francisco Fonturbel, Pontificia Universidad Católica de Valparaíso

Forest plantations are increasing worldwide, covering thousands of hectares across countries and ecosystems. Originally forests plantations were considered as green deserts, but recent evidence showed that some plantations could provide habitat for many native animal species. However, our understanding about the actual value of forest plantations for conservation is more focused on patterns rather than processes. The purpose of this symposium is to discuss the role of productive and protective forest plantations in conservation and management endeavors. Then, we will approach the discussion from three points of view: global changes in biodiversity associated to forest plantations, ecological interactions and evolutionary processes, and functional diversity. Focusing research on the ecological and evolutionary processes underlying forest plantations would improve our knowledge about its actual and future value for conservation, going beyond than species richness. After the presentations, we will have a joint debate to stimulate discussion on this subject between the presenters and the audience.

Differential effects of native and exotic plantation on bird diversity: A global assessment

Gabriel Castaño, Universidad de Caldas; Jaime Estevez, Universidad de Caldas; Francisco Fonturbel, Pontificia Universidad Católica De Valparaíso; Giovany Guevara, Universidad del Tolima

Root functional traits at Alder plantation and secondary forest

Jaime Estévez-Varón, Universidad de Caldas; Dolores Armenteras, Universidad Nacional de Colombia; Santiago Barco, Universidad de Caldas

Functional diversity of an Andean Alder forest plantation: implications for bird conservation

Maria Ospina, Universidad de Caldas; Juan Betancurt, Universidad de Caldas; Gabriel Castaño, Universidad de Caldas; Angela Vargas, Universidad de Caldas

Landscape heterogeneity explains the occurrence of a frugivorous marsupial at exotic plantations

Daniela Salazar, Universidad de Chile; Francisco Fonturbel, Pontificia Universidad Católica De Valparaíso

Bird-plant mutualistic networks in natural and planted ecosystems in a highland protected area

Juan Alejandro Morales-Betancourt, Universidad de Caldas; Patricia Orozco-Montoya, Universidad de Caldas; Néstor F. Alzate-Q, Universidad de Caldas; Gabriel Castaño, Universidad de Caldas; Andrés Pardo-Trujillo, Universidad de Caldas; Juan Salazar-Ramírez, Universidad de Caldas

Pollination and seed dispersal interactions in abandoned plantations

Francisco Fonturbel, Pontificia Universidad Católica De Valparaíso; Jorge Cortés, Universidad de Chile; Daniela Salazar, Universidad de Chile; Caren Vega-Retter, Universidad de Chile

SYMPOSIUM

21ST CENTURY SCIENCE LEADERSHIP IN CONSERVATION BIOLOGY

Sala 301

11:30-13:00

Michael Schwartz, USFS National Genomics Center for Wildlife and Fish Conservation

Strong science leadership will be needed to meet the conservation challenges of the 21st century. Previous discussions amongst the conservation biology community have recognized that conservation biology requires two types of leaders, those who focus on effective conservation science via developing state-of-the-art science, and those leaders who integrate science into policy, management, and society-at-large. While there has been attention paid to the latter, there has been little discussion on how to develop leaders who can identify where conceptual developments are needed for producing actionable

11h

science. This is unfortunate as science is a cornerstone of conservation biology, as the initial goals of the discipline were to “provide principles and tools for preserving biological diversity” (Soule 1985). This symposium brings together leaders of upper levels of government agencies, non-government organizations, and academia to discuss principles and case studies in scientific leadership. It starts with defining scientific leadership and identifying the problems of using traditional business leadership goals, strategies, and targets in the arena of science. Subsequent speakers will then define the essential elements of science leadership, recognizing that science leaders are often not in “command-and-control” situations where they are assigned top-down control of an organization. Scientific leadership can come from the middle of organizations or can be grassroots. Developing effective science leaders is essential but underappreciated. We believe that this symposium will be of great interest to the Conservation Biology community as strong science leadership can act as a force multiplier, amplifying scarce resources to be most effective in the accumulation of knowledge that can be applied to preserve biodiversity.

Symposium introduction: Science leadership shapes on the ground conservation

Michael Schwartz, USFS National Genomics Center for Wildlife and Fish Conservation

Integrating vision and tenacity to advance and apply science

Erica Fleishman, Colorado State University

Smith Fellows Program: Identifying potential and developing leadership skills to increase impact

Shonda Foster, Society for Conservation Biology

Conservation science for policy

Mark Burgman, Imperial College London

Notes from the campaign trail: Science leadership in an advocacy organization

Kathryn Matthews, Oceana

Panel discussion

12-MINUTE TALKS

CONSERVATION PLANNING AND PRIORITIZATION 2

Sala 302

11:30-13:00

Need for conservation planning in postconflict Colombia

Pablo Negret, University of Queensland; Moreno Di Marco, The University of Queensland; Martine Maron, The University of Queensland; Hugh Possingham, The University of Queensland; James Watson, Wildlife Conservation Society

An evaluation of marine Important Bird and Biodiversity Areas in spatial conservation

Jennifer McGowan, The University of Queensland; Rohan Clarke, Monash University; Moreno Di Marco, The University of Queensland; Hugh Possingham, The University of Queensland; Bob Smith, DICE, University of Kent

Three new surrogates for conservation planning

Paul Beier, Northern Arizona University; Fábio De Albuquerque, Arizona State University

Evaluating the sensitivity of species irreplaceability measures to data quality and granularity

Lucy Bastin, Joint Research Centre of the European Commission, Italy; Grégoire Dubois, Joint Research Centre of the European Commission; Andrea Mandrici, Joint Research Centre of the European Commission;

Identifying priorities and trade-offs when protecting biodiversity and ecosystem services in Bolivia

Constance Fastré, University of Antwerp; Erik Matthysen, University of Antwerp; Hugh Possingham, The University of Queensland; Diederik Strubbe, University of Antwerp

Resilience-based spatial prioritization of tropical fauna

Rebecca Brunner, University of California, Berkeley



Defining priority corridors and areas for key species in tropical landscapes occupancy and connect

Ivan Vela-Vargas, ProCAT Colombia/University of Arizona; Angela Hurtado-Moreno, Proyecto de Conservación de Aguas y Tierras - ProCAT Colombia; Diego Gómez-Hoyos, Proyecto de Conservación de Aguas y Tierras - ProCAT Colombia; Jose Gonzalez-Maya, ProCAT Colombia/Sierra to Sea Costa Rica; Sebastián Jiménez-Alvarado, Proyecto de Conservación de Aguas y Tierras - ProCAT Colombia; Catalina Moreno, Proyecto de Conservación de Aguas y Tierras - ProCAT Colombia; Diego Zárrate-Charry, ProCAT Colombia/OSU

Avoidance Behavior Meets Trophic Cascades

Michael Patten, University of Oklahoma

Migratory insects and their ecological consequences in a changing world A Review

Dara Satterfield, Smithsonian Conservation Biology Institute; Sonia Altizer, University of Georgia; Jason Chapman, University of Exeter; Peter Marra, Smithsonian Migratory Bird Center; Scott Sillett, Smithsonian Institution

Performance of satellite telemetry in terrestrial wildlife research what does the evidence show

Maarten Hofman, University of Göttingen; Niko Balkenhol, University of Göttingen; Matthew Hayward, Bangor University

12-MINUTE TALKS

ECOLOGY AND BEHAVIOUR 2

Sala 304
11:30-13:00

Natural regeneration on seismic lines influences movement behaviour of wolves and grizzly bears

Laura Finnegan, fRI Research; Jerome Cranston, Arctos Ecological Consultants; Julie Duval, fRI Research; Mark Hebblewhite, Wildlife Biology Program; Marco Musiani, University of Calgary; Lalenia Neufeld, Parks Canada; Karine Pigeon, fRI Research; Fiona Schmiegelow, University of Alberta; Gordon Stenhouse, fRI Research

Conservation practices and vocal dialects in the endangered Puerto Rican amazon *Amazona vittata*

Tanya Martinez, Puerto Rico Department of Natural and Environmental Resources; David Logue, University of Lethbridge

Distribution Habitat Characteristics and Conservation Threats of Red Panda in Nepal

Karl Wurster, USAID; Damber Bista, Red Panda Network;

Effects of water turbidity on *Montipora* sp. *Cnidaria* Acroporidae using an Aquaria System

Diana Ballesteros Contreras, The University of Manchester; Lina Barrios Gardelis, Manchester Metropolitan University; Richard Preziosi, Manchester Metropolitan University;

SYMPOSIUM

WHAT ARE WE WILLING TO LOSE? REFRAMING ADEQUACY TO ACHIEVE CONSERVATION OUTCOMES

Sala 103
14:30-16:00

Hugh Possingham, The University of Queensland; James Watson, Wildlife Conservation Society; Caitlin Kuempel, University of Queensland

The term adequate is defined as “satisfactory or acceptable in quality or quantity”, and in conservation terms, often refers to the ability of biodiversity features (i.e. species, habitats, etc.) to persist into the future. Adequacy remains one of the most challenging conservation principles to implement and measure. Growing interest in campaigns which advertise that “nature needs half” expose the fact that we still do not know how much is enough to conserve the world’s biodiversity. It is both remarkable and alarming that such a fundamental question remains not just unresolved, but so poorly answered. It is certain that anything less than 100% of effectively protected area will be inadequate to halt biodiversity loss at all levels. However, 100% protection is not a practical or realistic goal, particularly since nearly all area on earth has been impacted by human use. Instead of thinking about how much area we need to protect, which has a very high likelihood of falling short, why are we not asking: what can we absolutely not lose? By using this approach we will be forced to ask the equally important



and equally difficult question: what are we willing to lose? Considering that under current conservation commitments (e.g. Aichi Target 11) we are destined to lose 83%, it is important we start to consider what this might entail. With the proposed series of talks, we aim to 1) synthesize the existing state of adequacy in conservation science, 2) discuss key issues for making decisions about gains and losses for biodiversity, and 3) explore the implications of reformulating the current approach to adequacy on halting biodiversity loss.

How much protected area does tropical nature need? A case study from Singapore

Ryan Chisholm, National University of Singapore

Lessons from the wild west: benchmarking biodiversity in the Great Western

David Watson, ILWS, Charles Sturt University; Allan Burbidge, Department of Parks and Wildlife; Michael Craig, University of Western Australia; Tegan Douglas, Birdlife Australia; James Fitzsimons, The Nature Conservancy; Elizabeth Fox, Birdlife Australia; Carl Gosper, CSIRO; Anthony Nicholls, Charles Sturt University; James O'Connor, Birdlife Australia

Identification of extinction and colonization debts in tree species of Southern South America

David Uribe-Rivera, University of Melbourne; Patricio Plischoff, Universidad Católica de Chile

Are marine protected areas tackling threats?

Caitlin Kuempel, QLD; Kendall Jones, University of Queensland; Hugh Possingham, The University of Queensland; James Watson, Wildlife Conservation Society

The Bottleneck and the Breakthrough: A theory of biodiversity conservation in the Anthropocene

Eric Sanderson, Wildlife Conservation Society; John Robinson, Wildlife Conservation Society; Joe Walston, Wildlife Conservation Society

Adequacy: Conservation science's dark secret

Hugh Possingham, The Nature Conservancy

KNOWLEDGE CAFÉ

NEW FRONTIERS

Hall de exposiciones

14:30-16:00

GFW Biodiversity

Carolyn Ciciarelli, World Resources Institute

Edge effects on fauna flora and processes in the Brazilian cerrado

Pavel Dodonov, State University of Santa Cruz;

Fernando Andriolli, National Institute of Amazon Research; Andreza Braga, Independent; Karen Harper, Dalhousie University; Felipe Martello, São Paulo State University; Ingrid Paneczko, Independent; Milton Ribeiro, São Paulo State University; Dalva Silva-Matos, Federal University of São Carlos; Thamyrys Souza, State University of Santa Cruz; Marina Telles, Federal Institute of São Paulo

Mapping the artificial lightscaapes of the Kruger National Park

Bernard Coetzee, Organisation for Tropical Studies & GCSRI; Kevin Gaston, University of Exeter; Izak Smit, Scientific Services, Kruger National Park

How can vast biodiversity datasets empower rather than overwhelm tropical park managers?

Michelle Duong, Yale University; Diego Ellis Soto, Yale University; Walter Jetz, Yale University; Nigel Pitman, The Field Museum; Diana Alvira, The Field Museum; Nora Bynum, Field Museum; Corine Vriesendorp, The Field Museum

How can we foster collaboration between energy technologists and conservation biologists

Steven DeCaluwe, Colorado School of Mines

Mortality event of white-lipped peccary *Tayassu pecari* in The Tambopata National Reserve Peru

Paloma Alcázar García, Centro de Ornitología y Biodiversidad; Nancy Carlos Erazo, Centro de Ornitología y Biodiversidad



Do Diversity, Equity, and Inclusion matter in conservation? Personal perspectives from the field

Rae Wynn-Grant, Center for Biodiversity and Conservation, American Museum of Natural History; Martha Groom, University of Washington; Cynthia Malone, University of Toronto, PhD student; Ricardo Rocha, University of Lisbon; Eleanor Sterling, Center for Biodiversity and Conservation, American Museum of Natural History

Conservation Biology Delivering Social Benefits Through Practice

Clara Solano, Fundacion Natura

Complementary Conservation Strategies in Colombia: Why they should be formally recognised

Angela Santamaria (Resnatur)

SYMPOSIUM

**CRITICALLY EXAMINING ‘SUCCESS’
- SESSION III: INTERDISCIPLINARY
APPROACHES TO MEASURING
SUCCESS**

Secretaría General

14:30-16:00

Jeremy Brooks, Daniel Miller, Josie Chambers

Among conservation projects, the narrative of ‘win-win’ success for people, biodiversity, and climate change is commonplace. Yet, efforts to probe these notions of ‘success’ often expose unintended impacts and local contestations, such as leaked impacts into other areas and exacerbated inequalities. These contradictory accounts emerge from divergent practices for prioritizing and interpreting outcomes in ways that best serve one’s interests. This three-part symposium seeks to critically examine how and why conservation project ‘success’ narratives can become unrepresentative of local realities, and how interdisciplinary approaches can help improve accountability. Session III explores how conservation success has been operationalized by scholars and practitioners, conservation organizations, government agencies, and donors. Particular attention is paid to tradeoffs and synergies among outcomes and efforts

to develop practical indicators. Talks in this session will review various success measures and discuss proxy indicators. This session concludes with a discussion about the challenges with operationalizing notions of ‘success’ which are accountable to local realities in conservation research and practice.

Interrogating contemporary debates about the role of poverty alleviation in conservation

Janet Fisher (University of Edinburgh); Hari Dhungana (Southasia Institute of Advanced Studies); Jun He (Yunnan Agricultural University); Mirna Inturias (NUR Bolivia); Ina Lehmann (University of Bremen); Adrian Martin (University of East Anglia); David Mwayafu (Uganda Coalition for Sustainable Development); Iokine Rodriguez (University of East Anglia); Helen Schneider (Fauna and Flora International)

Follow the money: analyzing funding views of conservation “success” through country-scale mapping

Katia Nakamura (University of Illinois, Urbana-Champaign); Daniel Miller (University of Illinois, Urbana-Champaign)

Predictive Proxy Indicators to Assess the Long-Term Impacts of Forest Conservation Funding

Daniel Miller (University of Illinois); Pushpendra Rana (University of Illinois)

Evaluating conservation outcomes: can we develop a standardized approach for measuring ‘success’?

Jeremy Brooks (The Ohio State University)

Panel Discussion

Critically examining ‘success’ - Sessions Panel Discussion



SYMPOSIUM

CONSERVATION AND STORYTELLING IN A POST-TRUTH WORLD

Arsenal
14:30-16:00

Alex McInturff, University of California, Berkeley; Justin Brashares, Univ of Ca, Berkeley; Lauren Withey, UC Berkeley

The surprising political events of 2016 have demonstrated the power of narrative so emphatically that many claim we now live in a post-truth world. In this context, conservation biology must embrace new opportunities and obligations. A growing contingent of scientists has recognized opportunities to engage new audiences and access policymaking through storytelling. Meanwhile, interdisciplinary work has revealed powers of stories that oblige us to broaden our thinking: stories shape and express worldviews that have ecological and political consequences, influence the way stakeholders judge conservation, and define the field's priorities and methods. In this symposium, we explore storytelling as a framework in which practitioners, scientists, and stakeholders can better communicate with diverse audiences, approaches, value systems, and responsibilities. We will learn from those using narrative to broadcast scientific findings in politicized landscapes, journalists using new media to engage with stakeholders and public figures, and conservation practitioners telling stories that facilitate public engagement. Representatives of groups often unheard in the conservation world will demonstrate how translating both scientific and culturally-embedded notions of conservation through stories generates better outcomes for all. This symposium will help conservationists build tools to effectively and ethically navigate a new post-truth world.

A new place for stories: Obligations and opportunities for storytelling in conservation

Alex McInturff, UC Berkeley

Joining science and storytelling to communicate research on Yellowstone National Parks gray wolf

Kira Cassidy, Yellowstone Forever; Douglas Smith, Yellowstone Wolf Project, NPS

Tete are ne nne (Ancient things are today): Integrating local narratives into African conservation

Domingos Muala, Gorongosa Restoration Project; Kaitlyn Gaynor, University of California - Berkeley

Geojournalism: Enhancing conservation stories with data collection and visualization

Stefano Wroblewski, InfoAmazonia; Gustavo Faleiros, InfoAmazonia.org

The Local Perspective: Forest management via indigenous visions

Carlos Rodriguez, Tropenbos International Colombia

Reconciling Conservation Narratives: Experience of COCOMASUR Colombia with REDD+

Everildys Cordoba Borja, COCOMASUR

SYMPOSIUM

ADVANCES IN ASSESSING EFFECTIVENESS OF CONSERVATION POLICIES LATIN AMERICA

(Diversity, Equity and Inclusion Journey / Citizen Science Journey)

Sala 301
14:30-16:00

German Forero-Medina, Dr.; Daniela Miteva, Duke University

Latin America hosts a large number of species and is of primary importance for carbon sequestration and maintaining global precipitation patterns. At the same time it continues to experience rapid deforestation and ecosystem degradation due to agricultural and mining expansions. As pressures on biodiversity continue in Latin America, an array of potential solutions are adopted and implemented by governments and the civil society. To counteract threats that cause deforestation, habitat degradation and species loss, a host of policies including devolution of rights to local communities, protected areas, forest concessions, forest management and supply chain certification have been adopted. Many of these do not include rigorous monitoring to assess their effectiveness for biodiversity conservation. For this reason, only



limited evidence exists of the impacts on the ground. This session will bring together researchers employing a variety of methods ranging from rigorous impact evaluations employing big geospatial data to studies reliant on in-depth field data obtained from surveys on the ground to studies exploiting citizen science. The objectives of this symposium are (1) to present recent advances on an array of tools that can be used to assess effectiveness of conservation interventions and support on the ground conservation, and (2) to provide a forum to discuss potential ways to integrate big-data analyses with ground data, in order to improve conservation outcomes on the ground.

The dual roles of protected areas in conserving migratory birds and supporting communities.

Amanda Rodewald, Cornell Lab of Ornithology and Cornell University; Amanda Rodewald, Cornell Lab of Ornithology; Viviana Ruiz Gutierrez, Cornell Lab of Ornithology and Cornell University

Tools to protect and promote Ecosystem Services within certified forest management: Pilots from Peru

Yadid Ordoñez, FSC

Assessing the role of PAs in the conservation of vertebrates in Latin America: On the ground data

German Forero-Medina, Wildlife Conservation Society; Robert Marquez, WCS; Leonor Valenzuela, Wildlife Conservation Society

The role of property rights property rights in resisting forest loss in the Yucatan Peninsula

Daniela Miteva, The Ohio State University; Edward Ellis, Centro de Investigaciones Tropicales, Universidad Veracruzana; Peter Ellis, The Nature Conservancy; Bronson Griscom, The Nature Conservancy

Panel discussion

12-MINUTE TALKS

COMMUNICATING AND LEARNING FROM EXISTING CONSERVATION PROJECTS

Sala 302
14:30-16:00

Bad and good news in biodiversity conservation science in the last 15 years

Laurent Godet, Centre National de la Recherche Scientifique; Vincent Devictor, Centre National de la Recherche Scientifique

Learning Outcomes Associated with a Unique Conservation-Based Short-term Study Abroad Program

Carlos de la Rosa, Organization of Tropical Studies/ La Selva; Jacqueline Mclaughlin, Penn State University

Conservation media crafting powerful stories that illuminate and expand your impact

Adam Spencer, Round River Conservation Studies;

Assessment of the aggregate conservation effort of United States NGOs

Rossana Merizalde, IUCN; Thomas Brooks, IUCN; Deborah Good, IUCN US; Frank Hawkins, IUCN US; Paul Salaman, Rainforest Trust

Measuring impacts in modern conservation National Geographics Big Cats Initiative as a case study

Luke Dollar, National Geographic Society; Jonathan Baillie, National Geographic Society; Colby Bishop, National Geographic Society; Mark Downey, National Geographic Society; Beverly Joubert, National Geographic Society; Dereck Joubert, National Geographic Society; Alex Moen, National Geographic Society; Termeh Rassi, National Geographic Society; Catherine Workman, National Geographic Society

Journal practice and policy can reduce biases in scientific publication

Frith Jarrad, The University of Melbourne; Mark Burgman, The University of Melbourne; Ellen Main, Society Conservation Biology



SYMPOSIUM

GLOBAL CONNECTIVITY CONSERVATION DESIGNATION AND DESIGN

Sala 303
14:30-16:00
Gary Tabor, Center for Large Landscape Conservation

With Earth's human population on a trajectory to grow by 3 billion people in the next 50 years, the cumulative impact of human activity on the planet requires a new approach to conservation. Ecological connectivity conservation links natural and semi-natural landscapes, mitigating habitat fragmentation and enabling migratory flows essential to a fully functioning, resilient system. Yet, there is still little practical application to ensure ecological connectivity is protected. Now, two solution sets are emerging as opportunities to implement connectivity conservation on a global scale. First, The International Union for Conservation of Nature (IUCN) has launched a new Connectivity Conservation Specialist Group (CCSG) within its World Commission on Protected Areas. The membership-driven CCSG is charged with developing a new conservation designation for the world's governments to adopt—Areas of Connectivity Conservation (ACC). Second, ecological connectivity may be preserved through mitigation and strategic design of linear infrastructure, including roads, rails and pipelines. As part of the ACC process, a Transport Working Group has been formed to provide direction towards mitigating infrastructures' impacts on wildlife movement and mortality. This symposium will discuss the implementation of the ACC conservation designation and offer contemporary research and perspectives on connectivity mitigation through wildlife-friendly infrastructure development.

Using science to produce fuzzy maps of regional connectivity and unfuzzy corridor conservation plans

Paul Beier, Northern Arizona University

The Emerging Practice of Connectivity Conservation - Planetary Conservation for the 21st Century

Gary Tabor, Center for Large Landscape Conservation

Transboundary connectivity initiative in a mosaic of landscapes shaped by humans

Ancuta Cotovelia, INCDS Marin Dracea, Transilvania University

Connectivity conservation areas governance in Costa Rica

Olivier Chassot Labastrou, Connectivity Conservation Specialist Group, World Commission on Protected Areas

From Yellowstone to Yukon: Connectivity and large-landscape conservation

Jodi Hilty, Yellowstone to Yukon Conservation Initiative; Aerin Jacob, Yellowstone to Yukon (Y2Y) Conservation Initiative; Harvey Locke, Harvey Locke Consulting

Panel discussion

12-MINUTE TALKS

ECOLOGY, LANDSCAPE AND SPATIAL ECOLOGY

Sala 304
14:30-16:00

Need for speed does a slow life history lead to high extinction risk

Alejandro Laserna, Queens College City University of New York; James Herrera, American Museum of Natural History;

Spatial planning of controlled burns to achieve multiple objectives in a fire-dependent ecosystem.

Brooke Williams, The University of Queensland; Ronald Baker, College of Science and Engineering, James Cook University; April E Reside, Centre for Biodiversity and Conservation Science, University of Queensland; Marcus Sheaves, College of Science and Engineering, James Cook University

Spatial modeling of functional connectivity a novel approach to predicting bird species diversity

Christina Buelow, James Cook University



Dry forest ecosystem in Colombia knowledge gaps beta diversity and conservation challenges

Gustavo Kattan, Universidad Javeriana Cali;
Camilo Sanchez, Pontificia Universidad Javeriana
Cali

Changes in tiger habitat connectivity in Riau Sumatra

Erin Poor, Virginia Tech; Marcella Kelly, Dept of Fisheries and Wildlife; Yang Shao, Virginia Tech

Extent and conservation status of global hotspots of rarity and richness

Fábio De Albuquerque, Arizona State University

Extent and conservation status of global hotspots of rarity and richness

Fábio De Albuquerque, Arizona State University

Forest bird conservation in African agroforestry matrices How much forest is necessary

Denis Kupsch, Conservation Biology, Georg-August-Universität Göttingen; Kadiri Bobo, Department of Forestry, University of Dschang; Francis Njie, Mount Cameroon National Park, Buea, Cameroon; Elleni Vendras, Conservation Biology, Georg-August-Universität Göttingen, REC; Elleni Vendras, Conservation Biology, Georg-August-Universität Göttingen; Matthias Waltert, Conservation Biology, Georg-August-Universität Göttingen

*Thank
you!*

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