

Center for Biodiversity and Conservation

The Marshall M. Weinberg

Student Conference on Conservation Science – New York

October 7–9, 2020



The Marshall M. Weinberg Student Conference on Conservation Science - New York

October 7-9, 2020, American Museum of Natural History

Major funding for the 2020 Student Conference on Conservation Science - New York (SCCS-NY) has been provided by **Marshall M. Weinberg**. In grateful recognition of his longstanding generosity toward the Center for Biodiversity and Conservation, this year's SCCS-NY is presented in his honor.

The Conference is organized by the **Center for Biodiversity and Conservation** at the American Museum of Natural History.

Conference Partners:

Yale SCHOOL OF THE ENVIRONMENT



Conference Contributors:

Pace University

Conference Prize Contributors:

Yale University Press

Oryx—The International Journal of Conservation; Fauna & Flora International,
Cambridge University Press

Society for Conservation Biology

Western EcoSystems Technology, Inc.

The Marshall M. Weinberg Student Conference on Conservation Science - New York

October 7-9, 2020, American Museum of Natural History

Table of Contents

Acknowledgments	4
General Information	5
Code of Conduct	6
Conference Agenda	8
Plenarists	15
Guide to Posters	16
Advisers, Reviewers, and Mentors	18

Full presentation abstracts are available on the SCCS-NY website: www.amnh.org/sccsny

Follow us on Facebook! facebook.com/CBC.AMNH

Join the conversation on Twitter! [#sccsny2020](https://twitter.com/sccsny2020)

Follow us on Twitter! [@CBC_AMNH](https://twitter.com/CBC_AMNH)

The Marshall M. Weinberg Student Conference on Conservation Science - New York

October 7-9, 2020, American Museum of Natural History

Acknowledgments

The Student Conference on Conservation Science (SCCS) is the only international conference designed for graduate students, post-doctoral fellows, and early-career professionals pursuing or considering the field of conservation science. Interactions with established conservationists encourage collaborations and advance research.

The Marshall M. Weinberg Student Conference on Conservation Science–New York 2020 (SCCS–NY) is a sister conference to the highly successful SCCS–Cambridge begun in 2000 by the University of Cambridge. Other SCCS conferences now include SCCS–Bangalore, SCCS–Australia, SCCS–Beijing, and SCCS–Hungary.

SCCS–NY 2020 is organized by the American Museum of Natural History’s Center for Biodiversity and Conservation (CBC).

SCCS–NY Content and Logistics Coordination:

Felicity Arengo
Kristin Douglas
Nadav Gazit
Margaret Law
Ana Luz Porzecanski
Eleanor Sterling

Technology Coordinators:

Pete Ersts
AMNH IT Support Team

Program Design:

Nadav Gazit

The SCCS–NY Content and Logistics Coordination team would like to thank CBC and Museum staff and the volunteers without whom the conference would not be possible.

General Information

SCCS-NY is designed to foster dialogue and collaboration between the students, postdoctoral fellows, early-career professionals, and established conservationists in attendance. We care deeply about preserving the integrity of the work, research, and personal interactions of our speakers, mentors, presenters, and attendees. In order to find a balance between the expectations of presenters and attendees, and to make the meeting a safe and comfortable space for everyone, we have some basic guidelines. Please keep in mind CBC's meeting Code of Conduct and apply it to your written and oral communication. Harassment, intimidation, or discrimination in any form will not be tolerated. Our speakers and presenters have invested considerable time and effort in the development of their material and copyright laws apply. We encourage open discussion on social media and ask attendees to share the science and ideas presented at SCCS with their followers. However, we ask that you be especially cautious about discussing the work that is being presented. Due to the nature of this conference you may be hearing about new or unpublished work that may not be suitable for sharing. If you choose to write about the conference following the scheduled sessions, you must gain approval from speakers/presenters prior to quoting, publishing, or otherwise referencing their research on the Internet or through other forms of media.

Code of Conduct

The Center for Biodiversity and Conservation (CBC) at the American Museum of Natural History (AMNH) works to promote a welcoming environment at its meetings, whether in virtual or physical spaces, 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 all participants—attendees, speakers, mentors, and volunteers—to follow the Code of Conduct during the conference. This includes conference-related social events, and in related online communities and social media. All forms of communication among SCCS-NY 2020 participants during the meeting are considered within the scope of the conference, and thus fall under the jurisdiction of the Code of Conduct. These include public and private communications in virtual conference rooms, via electronic chat functions (e.g., Q/A box, Zoom Chat), emails, texts, social media, phone calls, and other forms of written, verbal, and non-verbal (including visual) communication.

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.
- Consider your surroundings and computer screen contents when sharing your screen or appearing in live or pre-recorded videos to prevent the appearance of sensitive personal information, inappropriate background images, or disruptive content. This does not apply to unplanned cameo appearances by pets and children.
- Uphold and support the CBC's commitment and actions to improve the events environmental and social impacts.
- Behave in accordance with professional standards and applicable laws.
- Respect the rules and policies of all venues and online platforms associated with the meeting.

Unacceptable Behavior

- CBC and AMNH do not tolerate discrimination or harassment on the basis of race, creed, color, religion, age, disability, marital status, partnership status, gender, sex, sexual orientation, gender identity, gender expression, genetic information, pregnancy, alienage or citizenship status, current or former participation in the uniformed services, status as a veteran, or national or ethnic origin, or on account of any other basis prohibited by applicable City, State, or Federal law.
- Sexual language and imagery, or any other potentially harassing material or behavior including but not limited to verbal comments, intimidation or unwelcome sexual attention, are not permitted at the conference and may not be incorporated into the visuals or presentations.
- Violating the rules and regulations of the online platforms and services.
- Participants asked to stop any harassing behavior are expected to comply immediately and to not repeat their behavior, or may be required to leave the conference, in the CBC's sole discretion.
- Examples of unacceptable behavior include but are not limited to disruption of virtual meetings, inappropriate comments related to any of the categories listed above; harassing photography or recording; threatening, intimidating or stalking anyone at the conference as an attendee, staff, or presenter or otherwise disruption of talks at the conference or other associated events organized by the CBC.

Consequences

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

Reporting Unacceptable Behavior

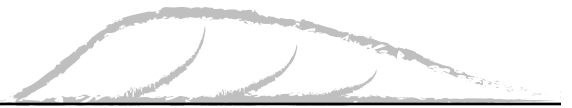
If you are the subject of unacceptable behavior, have witnessed any such behavior, or have any other concerns relating to unacceptable behavior, please immediately notify a CBC staff member listed in the program by email or phone. Screenshots or any evidence of the concern is helpful but not required.

- Call 212-496-3431
- Email sccs@amnh.org
- Individuals may also report prohibited conduct confidentially or anonymously through the Museum's Compliance Hotline, by calling 1-800-620-5571. This 800-number is managed by an outside, independent service provider.

Conference staff can provide support, including but not limited to:

- Contacting AMNH Title IX officers in Human Resources: Benjamin Marzolf, Title IX Coordinator / Equal Opportunity Specialist: 212-769-5316, bmarzolf@amnh.org

Agenda: Wednesday, October 7th



10:30am **Welcome and Introduction**
Felicity Arengo, Associate Director, Center for Biodiversity and Conservation, American Museum of Natural History

10:45am **Plenary Address**
Conservation in the time of COVID-19: linking biodiversity conservation and human health
Kevin J. Olival, Vice President for Research, EcoHealth Alliance, New York

11:30am **Break**

11:45am **Talk Session: Legal and ethical issues in conservation**
Session Chair: *Sam Cheng, Biodiversity Scientist, Center for Biodiversity and Conservation, American Museum of Natural History*

Anna LoPresti
Columbia University, New York, NY, USA

Managed retreat as a conservation strategy in US communities

Bethlehem Astella, Kelly Jones, Jennifer Solomon, Kathleen Galvin, Paul Evangelista
Colorado State University, Fort Collins, CO, USA

Shades of Justice in community conservation in Ethiopia

Monique Sosnowski¹, Gohar Petrossian¹, Yuna Kim¹, Marcus Asner²
¹John Jay College of Criminal Justice, New York, NY, USA; ²Arnold & Porter, New York, NY, USA

Patterns in the Federal Prosecution of Wildlife Crimes

Bofan Ji¹, Mingyang Xu², Ruoyu Xu³, Yu Xue⁴
¹Princeton University, Princeton, NJ, USA; ²Cornell University, Ithaca, NY, USA; ³Beijing No.4 High School, Beijing, China; ⁴Nanjing Foreign Language School, Nanjing, Jiangsu, China

From hunting to poaching: unveiling the diversity of wildlife crime in China

12:45pm **Live Talk Session Q&A**

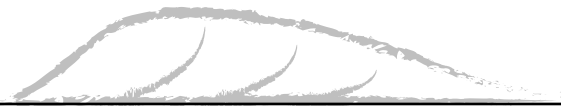
1:05pm **Break**

1:15pm **Mentor-Hosted Tables**

2:00pm **Break**

2:10pm	Speed Talk Session: Policy and social science	
	<p>Session Chair: Mary Blair, <i>Director, Biodiversity Informatics Research Center for Biodiversity and Conservation, American Museum of Natural History</i></p>	
	<p>John Bohorquez, Anthony Dvarskas, Ellen Pikitch <i>Stony Brook University, Stony Brook, NY, USA</i></p>	<p>Financial sustainability of Marine Protected Areas in Latin America and the Caribbean</p>
	<p>Alli Cutting, Luca Marsaglia, Manuel Cortez, Rashid Sumaila, Terre Satterfield <i>University of British Columbia, Vancouver, BC, Canada</i></p>	<p>Incidentally undermined: an ecological and economic case for bycatch reduction</p>
	<p>Sarika Khanwilkar^{1,2}, Monique Sosnowski³ ¹<i>Wild Tiger, San Antonio, TX, USA</i> ²<i>Columbia University, New York City, NY, USA</i> ³<i>John Jay College of Criminal Justice, New York City, NY, USA</i></p>	<p>A decade of illegal and legal imports of tigers and tiger products into the US</p>
	<p>Shiva Saravanan¹, Mark P. Hampton² ¹<i>Dakshin Foundation, Sahakar Nagar, Bengaluru, India</i>; ²<i>University of Kent, Canterbury, UK</i></p>	<p>A global study of motivations for poaching</p>
	<p>Karen Dietrich¹, Richard Schuster^{1,2}, Ian Curtis³, Oscar Venter¹ ¹<i>University of Northern British Columbia, Prince George, BC, Canada</i>; ²<i>Carleton University, Ottawa, ON, Canada</i>; ³<i>Ministry of Forests, Lands, Natural Resource Operations and Rural Development, Fort St. John, BC, Canada</i></p>	<p>Scale and Extent Impact Equity and Efficiency in Systematic Conservation Planning</p>
2:50pm	Speed talk group Q&A	
3:20pm	Break	
3:30pm	Virtual poster session A	
4:00pm	Virtual poster session B	
4:30pm	Adjourn	

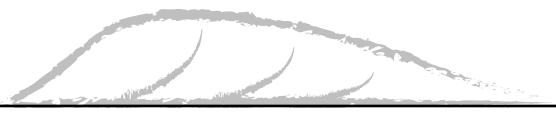
Agenda: Thursday, October 8th



10:30am	Welcome and Introduction <i>Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History</i>
10:45am	Plenary Address Expanding your leadership in an ever-changing world <i>Dan Canham, leadership development expert</i>
11:30am	Break
12:00pm	Talk Session: Habitat management, recovery and restoration <i>Session Chair: Pete Galante, Biodiversity Informatics Scientist, Center for Biodiversity and Conservation, American Museum of Natural History</i>
	Rafid Shidqi^{1,2}, Dewi Ratna Sari¹, Agustin Capriati¹, Eka Maya Kurniasih¹ <i>¹Thresher Shark Project Indonesia, Alor, East Nusa Tenggara, Indonesia; ²University of California, Santa Cruz, Santa Cruz, CA, USA</i>
	Finding solutions for pelagic thresher shark conservation in Alor Island, Indonesia
	Christina Langford, Melissa Cronin, Katherine Seto, Don Croll <i>University of California, Santa Cruz, Santa Cruz, CA, USA</i>
	Tackling sea turtle bycatch through tRFMO policy
	Prakash Mardaraj¹, Janmajey Sethy¹, Mark Fellowes² <i>¹Amity University, Guatam Budhh Nagar, Noida, Uttar Pradesh, India; ²University of Reading, Whiteknights, Reading, UK</i>
	From antagonism to conservation: towards community-centered sloth bear conservation
12:45pm	Live Talk Session Q&A
1:05pm	Break
1:15pm	Mentor-Hosted Tables
2:00pm	Break

2:15pm	Speed Talk Session: Species conservation	<i>Session Chair: Suzanne Macey, Program Manager and Biodiversity Scientist, Center for Biodiversity and Conservation, American Museum of Natural History</i>
	Oung Kant , Colin Perkins-Taylor, Robert Baldwin, Andrew Willson, Darryl MacDonald, Michael Moore, Matthew Leslie <i>Swarthmore College, Swarthmore, PA, USA</i>	Using drones to assess the health of endangered Arabian Sea humpback whales
	Naoko Kurata ^{1,2} , Elizabeth Alter ^{1,2} , Melanie Stiassny ¹ ¹ <i>American Museum of Natural History, New York, NY, USA;</i> ² <i>City University of New York, New York, NY, USA</i>	Early indications of speciation in a lamprologine cichlid from the Lower Congo River
	Michael Levin ¹ , Jared Meek ¹ , Evan Eskew ² , Brian Boom ³ , Sara Kross ¹ ¹ <i>Columbia University, New York, NY, USA;</i> ² <i>Rutgers University, New Brunswick, NJ, USA;</i> ³ <i>New York Botanical Garden, Bronx, NY, USA</i>	Data efficient: Using GBIF data to assess the conservation status of plants
	Prakhar Gahlot , Anna Weber, Amour Guibinga Mickala, Nicola Mary Anthony <i>University of New Orleans, New Orleans, LA, USA</i>	Understanding reproductive ecology of wild mandrills using non-invasive genetics
	Ruth Bowers-Sword ¹ , Joshua M. Linder ¹ , Roshna E. Wunderlich ¹ , Ekwoke E. Abwe ^{2,3,4} , Bethan J. Morgan ^{3,4} , Christos Astaras ⁶ , Carolyn A. Jost Robinson ⁵ ¹ <i>James Madison University, Harrisonburg, VA, USA;</i> ² <i>Drexel University, Philadelphia, PA, USA;</i> ³ <i>Ebo Forest Research Project, Douala, Cameroon;</i> ⁴ <i>San Diego Zoo Global, San Diego, CA, USA;</i> ⁵ <i>University of North Carolina Wilmington, Wilmington, NC, USA;</i> ⁶ <i>University of Oxford, Oxford, UK</i>	Assessing the population status of a critically endangered primate species
	Rajan Paudel ¹ , Michito Shimozuru ¹ , Rabin Kadariya ² , Naresh Subedi ² , Mariko Sashika ¹ , Toshio Tsubota ¹ ¹ <i>Hokkaido University, Japan;</i> ² <i>National Trust for Nature Conservation, Nepal</i>	Ecology and genetic diversity of sloth bear in Nepal
2:50pm	Speed talk group Q&A	
3:20pm	Break	
3:30pm	Virtual poster session C	
4:00pm	Virtual poster session D	
4:30pm	Adjourn	

Agenda: Friday, October 9th



10:30am Panel discussion

11:15am Panel Q&A

11:35am Break

12:00am **Talk Session: Approaches to wildlife conservation**

Session Chair: **Alex Moore**, *NSF Postdoctoral Fellow, Center for Biodiversity and Conservation, American Museum of Natural History*

Dincy Mariyam^{1,2}, Yashodha³, Mahi Puri^{1,4},
Abishek Harihar⁵, Krithi Karanth^{1,6}

¹Centre for Wildlife Studies, Bengaluru, India;

²Manipal Academy of Higher Education, Manipal,

India; ³International Rice Research Institute (Odisha),

Bhubaneswar, India; ⁴University of Florida, Gainesville,

FL, USA; ⁵Panthera, New York, NY, USA; ⁶Duke University,

Durham, NC, USA

**Incentivizing land restoration
around Bandipur and
Nagarahole Tiger Reserve**

Harshini Jhala^{1,2}, Qamar Qureshi², Simon
Black¹

¹University of Kent, Canterbury, UK; ²Wildlife Institute of

India, Chandrabani, Dehradun, Uttarakhand, India

**Assessing potential to
reintroduce grassland
megaherbivores across historic
range**

Michele Fernandes da Silva¹, Mariana
Vargas Cruz¹, João de Deus Vidal Júnior¹,
Gustavo Maruyama Mori², Maria

Imaculada Zucchi³, Anete Pereira de Souza¹

¹University of Campinas, Campinas, São Paulo, Brazil; ²São

Paulo State University, São Vicente, São Paulo, Brazil; ³São

Paulo Agency for Agribusiness Technology, Piracicaba, São
Paulo, Brazil

**Geographic and environmental
contributions to genomic
divergence in mangrove forests**

12:45pm **Live Talk Session Q&A**

1:05pm **Break**

1:15pm	Speed Talk Session: Species conservation	<i>Session Chair: Mark Weckel, Assistant Director; Youth Initiatives & Affiliated Scientist, Center for Biodiversity and Conservation, American Museum of Natural History</i>
	Jennifer Zhu ^{1,2} , J. Stephen Gosnell ^{2,1} <i>¹The Graduate Center of the City University of New York, NY, USA; ²Baruch College CUNY, New York, NY, USA</i>	Ribbed mussels still feed and biodeposit despite presence of predators and alarm cues
	Juan Diego del Castillo ¹ , Haydee Cerrón ² , Cecilia Janampa ² , Trinidad Pérez ² , Juana Ccama ² <i>¹Centro Urbes (Peruvian Centre for Urban Socio-ecosystems Resilience), Peru; ²PAFLA (Environmental Protectors of the Flower and Loma of Amancaes), Peru</i>	Community-based conservation of the peri-urban ecosystem ‘Lomas de Amancaes’
	Amanda Vilchez <i>INSIDEO, Lima, Peru</i>	Citizen science in Peru: bioblitz as a useful tool of promotion
	Jiaxin Xu ^{1,2} , Willow Coleman ^{1,3} , Kyra Madunich ^{1,4} , Nhi Phan ^{1,5} <i>¹EnviroLab Asia at the Claremont Colleges, Claremont, CA, USA; ²Swarthmore College, Swarthmore, PA, USA; ³Harvey Mudd College, Claremont, CA, USA; ⁴Pomona College, Claremont, CA, USA; ⁵Claremont McKenna College, Claremont, CA, USA</i>	Urban trees as bio-filters in Kyoto, Japan
	Sarah Davis ^{1,2} <i>¹Miami University Project Dragonfly, Oxford, OH, USA ²Wildlife Conservation Society, New York, NY USA</i>	Mapping microplastics: a citizen science initiative
	Rachel Turba ¹ , Heather Milne ² , Miguel Onate ³ , Beth Shapiro ⁴ , David Jacobs ¹ <i>¹University of California, Los Angeles, Los Angeles, CA, USA ²University of Washington, Seattle, WA, USA ³Fulgent Genetics, Temple City, CA, USA ⁴University of California, Santa Cruz, Santa Cruz, CA, USA</i>	Use of museum material to reconstruct the extirpated fauna of the Los Angeles River
1:50pm	Speed talk group Q&A	
2:20pm	Break	
2:30pm	Workshops	
4:00pm	Break	
4:15pm	Awards and closing remarks	
4:30pm	Adjourn	

Workshops

Adapting to Change in the Field: Tips and Advice from Conservationists

Arslan Ahmad, Early Career Grants - National Geographic Society; Jill Spear, Conservation & Research Grants - National Geographic Society; Kate Mastro, Graduate Scholarship Program - Wildlife Conservation Society

Exploring Half-Earth: Using Focal Species and Maps to Explore Patterns and Inform Conservation Action

Dennis Liu and Amanda Briody, E.O. Wilson Biodiversity Foundation; Scott Rinnan, Half-Earth Project & Yale University, Global Biodiversity, Ecology, and Conservation

From the Modern to Millennia: Temporal Techniques for the Conservation Biologist's Toolkit

Alexis Mychajliw, Laboratories of Molecular Anthropology & Microbiome Research, University of Oklahoma; Mairin Balisi and Libby Ellwood, Department of Rancho La Brea, Natural History Museum of Los Angeles County; Jessie George, Department of Geography, University of California, Los Angeles

Honing Skills to Fundraise for Conservation Projects

Stuart Paterson, Kate Tointon, and Henry Rees, CLP-Fauna & Flora International; Christina Imrich and Leala Rosen, CLP-Wildlife Conservation Society; Sherilyn Bos, CLP-BirdLife International

Making Decision Makers Do the Right Thing

David Johns, Portland State University

Species Distribution Modeling for Conservation in R and Wallace

Matthew Aiello-Lammens, Pace University; Pete Galante, American Museum of Natural History; Erica Johnson, Andrea Paz, and Gonzalo Pinilla-Buitrago, City College of New York, CUNY

Trends in Space Use, Movement and Management of Herpetofauna Metapopulations

Muhammad Rais, Wildlife Management, Arid Agriculture University Rawalpindi, Pakistan; Conservation Planning Specialist Group, Species Survival Commission, Commission on Ecosystem Management; Herpetologists' league, USA; Zoological Society of Pakistan

What Am I Doing with My Life? Career Planning for Conservation Researchers and Practitioners

Alex Moore, Mary Blair, Nadav Gazit, and Eleanor Sterling, American Museum of Natural History; Christian Rivera, University of Florida

Kevin J. Olival

Vice President for Research, EcoHealth Alliance, New York

Conservation in the time of COVID-19: linking biodiversity conservation and human health

The COVID-19 pandemic has destroyed families, societies, and economies around the world and led to >1M deaths. Yet, SARS-CoV-2 is just one of many pathogens to have recently “spilled over” from wildlife to people, and these emerging infectious disease events are increasing in frequency with roughly ~2-3 new diseases each year. Why and how are new diseases emerging? The answer is simple (even if the process may be complex): increasing, anthropogenic ecological changes (e.g. deforestation, wildlife trade, climate change) are providing growing opportunities for human-wildlife interactions and viral spillover. This talk will address how biological conservation and virus surveillance and pandemic prevention research are entirely synergistic, and should not be viewed as opposing. The relatively new, multidisciplinary field of One Health research is advancing rapidly – linking ecologists, conservation biologists, virologists, veterinarians, molecular biologists, and public health scientists in new and exciting ways to understand threats to wildlife and human populations. The COVID-19 pandemic has simultaneously provided challenges to on-the-ground conservation research, and opportunities to improve public awareness of the global ecological crisis and its linkages with human health. Dr. Olival will address these issues by charting his own personal career path and research experience.

Dan Canham

Leadership development expert

Expanding your leadership in an ever-changing world

The pace of change in the world is incredible. As the earth’s population expands and wealth in some areas increases, so do the demands on natural resources. These challenges are complex, interwoven and often, unknown. Those who step into the realm of conservation are fighting a difficult fight, but not an impossible one. These new conservation challenges require new approaches to leadership. One that is adaptive and experimental. One that embraces risk and is willing to fail in the pursuit of success. During the talk, we will discuss reframing what leadership is, and how to develop the new skills and ideas needed to expand your adaptive leadership capacity. We will also discuss each person’s greatest resource...themselves. Each of us has tremendous unused capacity. Understanding how to unleash our potential is critical to developing our leadership capacity and make an impact on conservation. Finally, we have to engage and empower others. We need to engage different groups, including those who don’t agree with conservation’s goals. Without others, it becomes nearly impossible to progress on conservation’s biggest challenges. Dan Canham will share his leadership journey and personal insights on overcoming challenges, embracing change, and keeping a positive attitude throughout it all.



Session A

Connor Anderson

Rutgers University

Habitat selection in Eastern Fence Lizards

Allan Baino

University of Glasgow-IBAHCM

Using stable isotopes to estimate diet composition in Gypho vultures

Chase Ballas

Columbia University

Landscape Changes in the New Jersey Pine Barrens from historic human use

Michael Bieganeck

Augusta University

Effects of fish communities on freshwater amphipod stocking success in Minnesota, USA

Sienna Byrne

Princeton University

Collaboration, Hawaiian cultural values, and coastal conservation in North Kohala

Mariya Chechina

TropicForest Inc.

Designing mixed-species native tree reforestation trials in the Philippines

Irene Cooper

Thomas Jefferson University

Novel invasive plant management for restoration using commercial textile applications

Urvi Dave

Sardar Patel University

Assessing basking behaviors of marsh crocodiles in Charotar region, Gujarat, India

Jyotish Ranjan Deka

Wildlife Institute of India

Indian leopard: adaptation and conservation issues around Guwahati City in Assam

Session B

Dana DeSousa

Pace University

Baby Boom: over 200,000 Hatchlings Released as a result of Nest Relocation at SPNWR

Debbie Einhorn

CUNY- City College of New York

Green burial in NYC

Natalia Erazo

Scripps Institution of Oceanography

Understanding the diversity and functionality of mangrove forest root microbiome

Jose Esparza

Public Sensors

Fostering community science through student-built environmental sensor

Madison Evans

Tufts University

Melting permafrost and increased risk of anthrax outbreaks in Siberian wildlife

Marissa Garcia

Harvard University

North Atlantic Right Whale population dynamics: a comparison of survey techniques

Courtnei Holness

CUNY-City College of New York

Distribution modeling of Mexican montane forests and response to land use change

Laurel Hopkins

Oregon State University

Improving species distribution models with "deep" habitat covariates

Bethany Johnson

CUNY-City College of New York

Current and future geographic distribution of a threatened cloud forest mammal

Jeannie Johnson

University of California, Santa Cruz

Best practices for mobulid bycatch reduction in fisheries

Shantanu Joshi

Tata Institute of Fundamental Research-National Centre for Biological Sciences

Ontogenic colour change and mating in the damselfly *Agriocnemis pygmaea*

Session C**Kimberly Louisor***CUNY-Hunter College*

Optimizing genotyping protocol of the Purple Faced Langur

Rose Chinly Mae Ortega*Mindanao State University*Analysis of bacteria in *Hippocampus barbouri*: A call for seahorse conservation**Taylor Machette***Princeton University*

The potential functions of synchronous diving in short-finned pilot whales

Desiree Pante*University of California, Santa Cruz*Reproductive success of *L. argenteus* in different aspects of the White Mountains**Soham Pattekar***WWF-India*

Fine-scale habitat use of Dholes in Western ghats using camera traps

Allison Payne*San Francisco State University*

Humpback whale entanglement rates off the central Californian Coast

Rindra Ramananjatovo*University of Antananarivo*

The role of species-based approaches in Malagasy endangered rosewood conservation

Krishnanunni Mavinkal Ravindran*University of Copenhagen*

Exploring the market potential of Shea caterpillars in northeast Ghana

Session D**Freya Rowland***Yale University*

Synchrony, density dependence, and persistence in amphibian populations

Amanda Smolinski*Idaho State University*

Neutrons for conservation: neutron radiography analysis of siliceous marine sponges

Kimberly Snyder*Antioch University New England*

Amphibian species richness and distribution in vernal pools at Glover's Ledge, NJ

Kamakshi Tanwar*Wildlife Institute of India*

Aspects of species ecology studied from two different motion sensitive camera setups

Mah Tarke*Pan African Institute for Development West Africa*

Wildlife habitat connectivity: prespects and challenges, Cameroon

Margaret Thurston*Cornell Cooperative Extension of Monroe County*

Forests of Concepcion: deforestation, forest degradation, and conservation in Bolivia

Adriane Tobias*University of the Philippines, Los Banos*

Conservation status of Rafflesia in the Philippines: An IUCN Red List Assessment

Sateesh Venkatesh*CUNY-Hunter College*

Linking personality traits to crop raiding behavior in semi-captive Myanmar Elephants

Mingang Xu*Cornell University*

More than food consumption: delineating wildlife utilization industry in China

Melissa Zarate*Boston University*

Predicting habitat of a critically endangered monkey in the tropical Andes of Peru

Karla Alvarado*University of South Florida*

Using RMBL's archival herbarium records to survey patterns in vegetation change

SCCS–NY Advisors, Reviewers, Mentors

Special thanks are due to all those who have given so generously of their time and talents to advise, review, and mentor. They include:

Arslan Ahmad

National Geographic Society

Matthew Aiello-Lammens

Pace University

Dan Ardia

Franklin & Marshall College

Felicity Arengo

American Museum of Natural History

Sylvia Atsalis

Fulbright Scholar & Founder of Professional Development for Good

Novem Auyeung

NYC Department of Parks and Recreation

Daniel Baldassarre

The State University of New York Oswego

Erin Betley

American Museum of Natural History

Mary Blair

American Museum of Natural History

Abraham Borker

UC Santa Cruz

Anthony Caragiulo

American Museum of Natural History

Samantha Cheng

American Museum of Natural History

Catherine Christen

Smithsonian Conservation Commons

John Cigliano

Cedar Crest College

Christina Colon

Kingsborough Community College

Sunny Corrao

NYC Department of Parks and Recreation

Drew Cronin

North Carolina Zoo

Georgina Cullman

NYC Department of Parks and Recreation

Kristin Douglas

American Museum of Natural History

Leo Douglas

New York University

Diego Ellis Soto

Yale School of the Environment

Peter Ersts

American Museum of Natural History

Nick Friedenber

Applied Biomathematics

Peter Galante

American Museum of Natural History

Nadav Gazit

American Museum of Natural History

Anthony Giordano

SPECIES

James Gibbs

The State University of New York College of Environmental Science and Forestry

Steven Gray

Michigan State University

Martha Groom

University of Washington

Evon Hekkala

Fordham University; American Museum of Natural History

Kate Holmes

Wildlife Conservation Society

Ned Horning

American Museum of Natural History

Martha Hurley

Global Wildlife Conservation

David Johns

Portland State University, Marine Conservation Institute; Wildlands Network

Francine Kershaw

Natural Resources Defense Council

Sara Kross

Columbia University

Kimberly Landrigan

American Museum of Natural History

Jenna Lawrence

Columbia University

Suzanne Macey

American Museum of Natural History

Alex Moore

American Museum of Natural History

Eugenia Naro-Maciel

New York University

Matt Palmer

Columbia University

Ana Luz Porzecanski

American Museum of Natural History

Simon Queenborough

Yale School of the Environment

Anne Ricculi

Drew University

Dan Rubenstein

Princeton University

Manette Sandor

Columbia University

Amanda Sigouin

American Museum of Natural History

Eleanor Sterling

American Museum of Natural History

Anne Toomey

Pace University

Ursula Valdez

University of Washington

Lina Valencia

Global Wildlife Conservation

Katrina Toal

NYC Department of Parks and Recreation

Judith Weis

Rutgers University

Claudia Wultsch

American Museum of Natural History

Francesca Zoppi

United Nations

Center for Biodiversity and Conservation

The Center for Biodiversity and Conservation (CBC) at the American Museum of Natural History was established in 1993 in response to concern among its scientists over rapid species loss and increasing ecosystem degradation around the world, and to leverage Museum resources to heighten public understanding and stewardship of biodiversity. Entering its third decade, the CBC transforms knowledge into conservation action through pioneering multidisciplinary collaborative research, capacity development, and by convening and connecting key actors. The CBC has developed a distinctive approach, fostering co-creative processes with strategic partners across all of our programs and projects. CBC staff members, including multiple conservation scientists and outreach specialists, work closely with communities and local partners to establish common goals and research priorities; design, implement, evaluate, and adaptively manage model conservation programs; and share results with people facing similar challenges. Thus our work spans the full cycle of conservation action, connecting diverse perspectives and sources of knowledge to conservation problems and solutions.