



 AMERICAN MUSEUM OF NATURAL HISTORY

**CENTER FOR BIODIVERSITY
AND CONSERVATION**

**Student
Conference
on
Conservation
Science -
New York**

October 8 - 11, 2013



STUDENT CONFERENCE ON CONSERVATION SCIENCE-NEW YORK

OCTOBER 8-11, 2013

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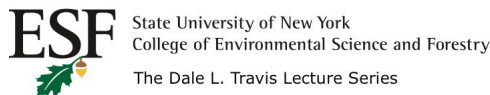
Full presentation abstracts are available on the SCCS-NY website: <http://cbc.amnh.org/sccsny>

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The Center for Biodiversity and Conservation is grateful to the Edgar M. Cullman, Jr. Family and Vivian H. Donnelley, Strachan Donnelley Family Charitable Lead Unitrust for their generous support of this conference.

Conference participation of students in the Museum's Science Research Mentoring Program is supported by the Doris Duke Charitable Foundation.



**STUDENT CONFERENCE ON CONSERVATION SCIENCE
NEW YORK (SCCS-NY)
OCTOBER 8-11, 2013**

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.

SCCS-New York is a sister conference to the highly successful SCCS-Cambridge, begun in 2000 by the University of Cambridge, as well as SCCS-Bangalore, SCCS-Australia, and SCCS-Beijing.

The Student Conference on Conservation Science-New York 2013 (SCCS-NY) is sponsored by the American Museum of Natural History's Center for Biodiversity and Conservation in partnership with the Yale University School of Forestry and Environmental Studies, State University of New York College of Environmental Science and Forestry, Princeton University, Earth Institute at Columbia University, and University of Cambridge. Collaborating institutions include Audubon Society, Bard College, Barnard College, City University of New York, Clarkson University, Columbia University, CUNY City College, CUNY College of Staten Island, Fordham University, Hebrew University of Jerusalem, Hofstra University, Rutgers University, Scenic Hudson, Stanford University, State University of New York College of Environmental Science and Forestry, University College of London, University of Connecticut, University of Hawai'i at Manoa, University of Maine, University of Miami, University of Washington-Bothell, and Wildlife Conservation Society.

In conjunction with SCCS-NY, the American Museum of Natural History is proud to host the Mack Lipkin Man and Nature Series panel discussion, and Questions for a Resilient Future, co-presented by the Center for Humans and Nature.

For their significant role in shaping the form and content of this conference, we especially wish to acknowledge SCCS-NY's many advisors, reviewers, and mentors, who are named in the back of this program.

SCCS-NY Content Coordinators:

Ana Luz Porzecanski
Felicity Arengo
Eleanor J. Sterling

Technology Coordinators:

Pete Ersts
Tony Alexander
Ho-Ling Poon

Symposium Logistics Coordinator:

Robin C. Gold

Registration Coordinator:

Margaret Law

Logistics Support:

Fiona Bayly
Kristin Douglas

Program Design:

Robin C. Gold

PHOTOGRAPHY AND FILM RECORDING POLICIES:

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.

Only official, AMNH-contracted vendors and working journalists with approved press credentials will be permitted to photograph, film, audio tape, or publish written content about the conference sessions and special events/receptions.

Individuals filming or photographing with personal video/audio equipment or other recording devices (mobile phones, digital or film cameras, tape recorders) without prior permission from the Center for Biodiversity and Conservation or the American Museum of Natural History, or without proper credentials, will be asked to cease recording or using these devices immediately.

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.

If you will be using social media during the conference (Twitter, Tumblr, Facebook, Google+, personal blogs) 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.

Please keep in mind that our speakers and presenters have invested considerable time and effort in the development of their material and copyright laws apply.

WIRELESS INTERNET ACCESS:

Please follow these steps to access the AMNH-PUBLIC-WIFI network:

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4. If the Terms and Conditions page is not automatically presented by your system, open you web browser and attempt to connect to a web page. Your browser will be redirected to the Terms and Conditions page. Click on the “accept” button at the top right of the creen to complet your connection.

TUESDAY, OCTOBER 8

3:00 pm -
5:00 pm

QUESTIONS FOR A RESILIENT FUTURE

Hosted by the Center for Humans and Nature and the American Museum of Natural History

Kaufmann Theater, 1st Floor

Introductions and welcome by **Eleanor J. Sterling**, *Director, Center for Biodiversity and Conservation, American Museum of Natural History* and **Ceara Donnelly**, *Center for Humans and Nature*

What does Earth ask of us?

Robin Kimmerer, *Distinguished Teaching Professor of Biology, State University of New York College of Environmental Science and Forestry*

Can democracy in crisis deal with the climate crisis?

Carol Gould, *Distinguished Professor of Philosophy and Political Science, CUNY*

How is nature critical to a 21st century urban ethic?

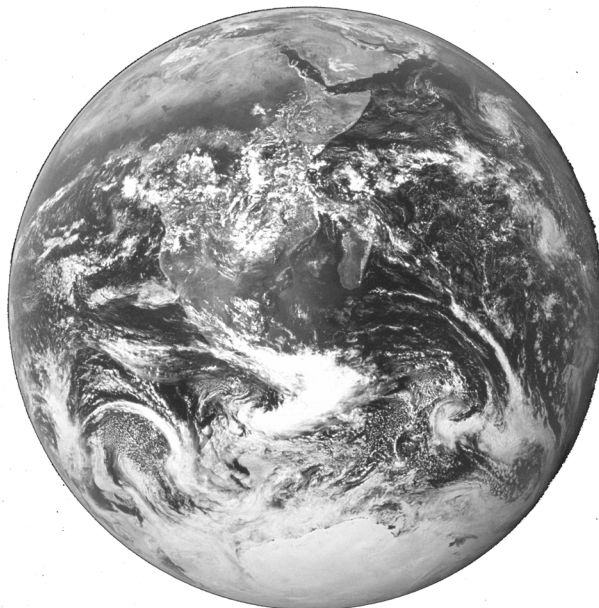
Julianne Lutz Warren, *Master Teacher, New York University*

What does Earth ask of us?

Kathleen Dean Moore, *Distinguished Professor of Philosophy, Oregon State University*

Presentations will be followed by a panel discussion with all four speakers, moderated by

Brooke Hecht, *President, Center for Humans and Nature*



S C C S - N Y A G E N D A

WEDNESDAY, OCTOBER 9	
8:00 am	Breakfast and Registration (Grand Gallery, 77 th Street Lobby)
	Welcome and Introduction (Kaufmann / Linder Theaters)
9:00 am	John Flynn , <i>Dean, Richard Gilder Graduate School at the American Museum of Natural History</i> Eleanor J. Sterling , <i>Director, Center for Biodiversity and Conservation, American Museum of Natural History</i>
9:15 am	Plenary Address: David K. Skelly Conservation on the Suburban Frontier <i>Professor of Ecology and Associate Dean for Research, Yale School of Forestry and Environmental Studies and Curator, Yale Peabody Museum of Natural History</i>
	Talk Session: Conservation Genetics (Kaufmann/Linder Theaters)
9:55 am	Session Chair: Anthony Caragiulo <i>Postdoctoral Research Fellow, Sackler Institute for Comparative Genomics, American Museum of Natural History</i>
	Gregory Barord A historical and modern approach to population assessments of the deep sea Nautilus <i>City University of New York - Graduate Center and Brooklyn College</i>
	Francine Kershaw Resolving weak genetic population structure using relatedness and social networks <i>Columbia University</i>
	Stephanie Dowell Monitoring monitors: Genetic structure of the highly exploited Nile monitor <i>Fordham University</i>
	Luke Browne Genetic consequences of forest fragmentation in Ecuador for a widespread canopy palm <i>Tulane University</i>
11:00 am	Break (Northwest Coast Indians, 1 st Floor)
	Talk Session: Connectivity and Conservation (Kaufmann/Linder Theaters)
11:35 am	Session Chair: Felicity Arengo <i>Associate Director, Center for Biodiversity and Conservation, American Museum of Natural History</i>
	Sandeep Sharma Are corridors important for tigers? <i>Clemson University Institute for Parks</i>
	Carolina Gomez-Posada Can bamboo forests work as conservation tools in a fragmented landscape in Colombia? <i>University of Washington</i>
	Jiazi Liu Fences limited the population recovery of the endangered Przewalski's gazelle <i>Peking University</i>
	Joshua Stewart Conservation implications of oceanic manta ray spatial ecology <i>Scripps Institution of Oceanography, UCSD</i>

12:45 pm **Lunch: Mentor-Hosted Tables** (School Lunchrooms, Lower Level)

Speed Talk Session: Advancing Conservation Management (Kaufmann/Linder Theaters)																					
2:15 pm	<p>Session Chair: Mark Weckel <i>Postdoctoral Conservation Research and Teaching Fellow, Center for Biodiversity and Conservation and Department of Education, American Museum of Natural History</i></p>																				
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S C C S - N Y A G E N D A

	Talk Session: Ecosystem Change and Conservation (Kaufmann/Linder Theaters)	
3:55 pm	Session Chair: Georgina Cullman <i>Postdoctoral Fellow, Center for Biodiversity and Conservation, American Museum of Natural History</i>	
	Andrea Reid <i>McGill University</i>	Implications of hypoxia tolerance for wetland refugia use in Lake Nabugabo, Uganda
	Elham Sumarga <i>Wageningen University</i>	Land use change and ecosystem services dynamics in Central Kalimantan Indonesia
	Kayla Hamelin <i>McGill University</i>	Thermal effluent alters benthic invertebrate communities in the St. Lawrence River
	Vincent Fugere <i>McGill University</i>	Effects of agricultural land-use on the functioning of Ugandan rainforest streams
5:10 - 6:30 pm	Poster Session and Pizza Party (Astor Turret and Fossil Mammal Array, 4th floor)	

6:30 - 8:00 pm	<p>THIS YEAR IN CONSERVATION: A PANEL DISCUSSION 2013 Mack Lipkin Man and Nature Series (Kaufmann / Linder Theaters)</p> <p>Four conservation professionals explore the important events, ideas, and innovations that have challenged and inspired conservation action on the world stage and in their own careers.</p> <p>Stewart Diemont <i>Department of Environmental Resources Engineering, State University of New York College of Environmental Science and Forestry</i> *Dr. Diemont's participation in this event is made possible through the generous support of the SUNY-ESF Dale L. Travis Lecture Series.</p> <p>Rodolfo Dirzo <i>Department of Biology, Stanford University</i></p> <p>Jane Carter Ingram <i>Ecosystem Services, Wildlife Conservation Society</i></p> <p>Eleanor J. Sterling (Moderator) <i>Director, Center for Biodiversity and Conservation, American Museum of Natural History</i></p> <p>The Mack Lipkin Man and Nature Series was established in honor of Dr. Mack Lipkin, Sr., by his many friends and admirers. Dr. Lipkin was a physician who was a gentle and powerful force towards advancing the most humane and caring practices of medicine.</p>
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S C C S - N Y A G E N D A

THURSDAY, OCTOBER 10											
8:00 am	Breakfast and Registration (Grand Gallery, 77 th Street Lobby)										
Talk Session: Conservation at the Landscape Scale											
9:00 am	<p>Session Chair: Ana Luz Porzecanski <i>Project Director, Network of Conservation Educators and Practitioners & Associate Director for Capacity Development, Center for Biodiversity and Conservation, American Museum of Natural History</i></p>										
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10:15 am	Break (Northwest Coast Indians, 1 st floor)										
Talk Session: Socio-ecological Systems											
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12:10 pm	Lunch: Mentor-Hosted Tables (School Lunchrooms, Lower Level)										
1:55 pm	Group Photo (Location to be announced)										

S C C S - N Y A G E N D A

Speed Talk Session: Biodiversity in Changing Ecosystems	
2:20 pm	<p>Session Chair: Mary E. Blair <i>Assistant Director for Research and Strategic Planning, Center for Biodiversity and Conservation, American Museum of Natural History</i></p>
	<p>Shaena Montanari <i>Sackler Institute for Comparative Genomics, American Museum of Natural History</i></p> <p>Molecular and isotopic methods for dietary analysis in big cats using scats and hair</p>
	<p>Dawn Konkoly <i>Fordham University</i></p> <p>The early birds are getting earlier: Long-term shifts in dawn chorus onset</p>
	<p>Hongliang Bu <i>Peking University</i></p> <p>Activity patterns of sympatric small forest carnivores in southwestern China</p>
	<p>Curtis Burkhalter <i>Rutgers University</i></p> <p>Search strategies are a critical aspect of settlement decisions within a landscape</p>
	<p>Aini Hasanah Abd Mutalib <i>Universiti Sains Malaysia</i></p> <p>Understanding nesting ecology and behavior of green sea turtles</p>
	<p>Sandra Martins De Freitas <i>Carleton University</i></p> <p>Comparison of primary and secondary forest site occupancy by birds in Central Amazon</p>
	<p>Mariya Chechina <i>University of Alberta</i></p> <p>Screening life history traits of tropical tree species for use in reforestation</p>
	<p>Erasme Uyizeke <i>National University of Rwanda</i></p> <p>Protecting aquatic biodiversity through a new farming management design in Rwanda</p>
	<p>Jennifer Schieltz <i>Princeton University</i></p> <p>How do wild grazers respond to cattle grazing on shared rangelands in East Africa</p>
	<p>Emma Fuller <i>Princeton University</i></p> <p>Recovery of natural systems: Does it happen?</p>
3:15 pm	Speed-Talk Discussion and Break (Northwest Coast Indians, 1 st floor)
4:00 pm	<p>Plenary Address: Rodolfo Dirzo <i>Bing Professor in Environmental Science, Department of Biology, Stanford University</i></p> <p>Conservation beyond taxa: Threats to ecological processes in tropical systems</p>
4:45 pm	Awards and Closing

5:05 - 6:30 pm

RESOURCE & CAREER FAIR
 (Astor Turret and Fossil Mammal Array, 4th Floor)

Network and gather information about future careers and resources in conservation science!

Conservation Leadership Programme • Earth Institute Center for Environmental Sustainability (EICES)
 • Richard Gilder Graduate School • EcoHealth Alliance • Wildlife Conservation Society-Glover’s Reef Research Station • Yale University Press • Audubon Society • Network of Conservation Educators and Practitioners (NCEP) • University of Miami-Marine Conservation and Coastal Sustainability Programs • Fordham University • World Wildlife Fund-Russell E. Train Education for Nature Program • Bard College • International Union for Conservation of Nature (IUCN) • Society for Conservation Biology

S C C S - N Y A G E N D A

FRIDAY, OCTOBER 11

Workshop Session I

9:00 am	Biodiversity Conservation in the City: What are the next big questions in urban conservation biology? (Linder Theater, 1 st Floor, 90 min.)	Led by: Mark Weckel , <i>Postdoctoral Conservation Research and Teaching Fellow, American Museum of Natural History</i> ; Timon McPhearson , <i>Assistant Professor of Ecology, The New School</i> ; Emily Nobel Maxwell , <i>Urban Conservation Director, The Nature Conservancy</i> ; Ellen Pehek , <i>Principal Research Ecologist, New York City Department of Parks and Recreation</i>
	Art in Conservation: Poetry and the Natural World in Mexico (Virtual Reality Room, 2 nd Floor, 90 min.)	Led by: Deborah Diemont , <i>Department of Environmental Resources, State University of New York College of Environmental Science and Forestry and Newhouse School of Public Communications, Syracuse University</i> and Stewart Diemont , <i>Department of Environmental Resources, State University of New York College of Environmental Science and Forestry</i>
	Expanding Your Teaching Toolbox: An Introduction to Active and Scientific Teaching Approaches (Room 319, 3 rd Floor, 180 min.)	Led by: Ana Luz Porzecanski , <i>Associate Director for Capacity Development and NCEP Project Director, Center for Biodiversity and Conservation, American Museum of Natural History</i>
10:30 am	Benefits of Student Engagement in Public Participation in Scientific Research Projects (Linder Theater, 1 st Floor, 90 min.)	Led by: Chanda Bennett , <i>Manager of Education, Wildlife Conservation Society - New York Aquarium</i>
12:00	Lunch Break and Collections Tours (<i>If you are registered for a Collections Tour, please meet at the registration desk outside the Kaufmann Theater on the 1st Floor at 12:10pm SHARP.</i>)	

Workshop Session II

2:00 pm	Balancing Social and Ecological Needs in Conservation Planning and Protected Area Management (Virtual Reality Room, 2 nd Floor, 180 min.)	Led by: Joshua Fisher, PhD , <i>Postdoctoral Research Scientist & Lecturer, the Advanced Consortium on Cooperation, Conflict and Complexity (AC4), Earth Institute, Columbia University</i>
	A Biocultural Approach in Conservation Practice: Conceptual and Practical Tools for Linking Biological and Cultural Diversity (RGGG Lecture Hall, 5 th Floor, 180 min.)	Led by: Georgina Cullman , <i>Postdoctoral Fellow, Center for Biodiversity and Conservation, American Museum of Natural History</i>
	What am I Going to Do with the Rest of My Life?! Exploring Careers in Conservation (Linder Theater, 1 st Floor, 180 min.)	Led by: Alexandra E. Sutton , <i>Duke University</i> ; Rae Wynn-Grant , <i>Columbia University</i> ; Cynthia Malone , <i>Columbia University</i> ; Mary E. Blair , <i>Assistant Director for Research and Strategic Planning, Center for Biodiversity and Conservation, American Museum of Natural History</i>

DAVID K. SKELLY

Professor of Ecology and Associate Dean for Research, Yale School of Forestry and Environmental Studies
Curator, Yale Peabody Museum of Natural History

CONSERVATION ON THE SUBURBAN FRONTIER

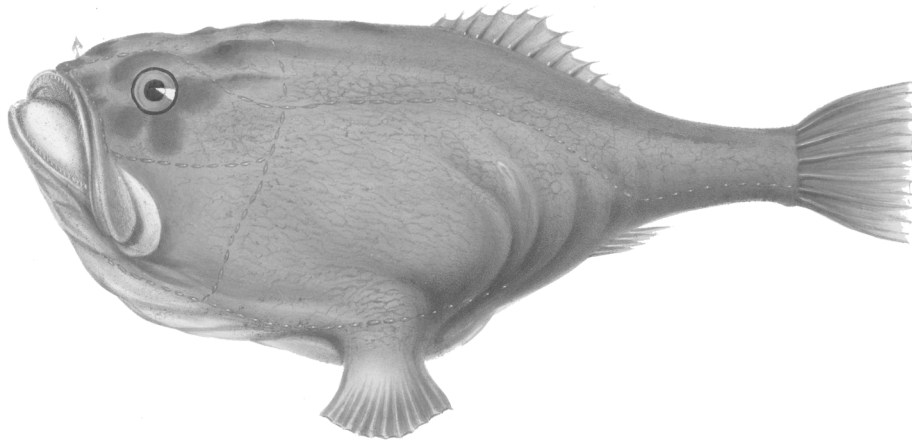
While conservation scientists engage in acrimonious debates about whether wilderness still exists, we can be quite certain that “domesticated landscapes” are rapidly becoming an ever greater presence around the globe. One of the leading forms of domestication is the creation of suburban environments. Unlike many other forms of conversion, suburban landscapes often integrate relictual pieces of native ecosystems with highly altered environments. The result is typically a jagged, disjointed set of habitats for wildlife species to negotiate. Conservation research in these contexts has focused most closely on the role of habitat loss and fragmentation as well as the influences of roads. Much of the work has emphasized patterns of native biodiversity loss and the promotion of invasive species with development. Alongside these well-trodden research themes are emerging areas focused on remediating and avoiding harms associated with development. New Findings will emphasize ways in which the inevitable growth of suburban environments may best accommodate and support other species and the ways in which other species may help us gauge and improve environmental health for all species.

RODOLFO DIRZO

Bing Professor in Environmental Science, Department of Biology, Stanford University

CONSERVATION BEYOND TAXA: THREATS TO ECOLOGICAL PROCESSES IN TROPICAL SYSTEMS

While the concern for the loss of biodiversity remains a critical contemporary problem for the world, an aspect that urgently needs attention now is the risk of loss of ecological processes. This talk presents an analysis of the anthropogenic impact on animals - a process termed “defaunation” - in tropical ecosystems, and how this in turn leads to the disruption of ecological interactions and local extinction of ecological processes. Additionally, the talk will explore how defaunation may have cascading consequences, potentially affecting human health.



(IN ALPHABETICAL ORDER BY PRESENTER'S LAST NAME)

Kelly Boisvert

Tufts University

Evaluating the potential resilience of *Pieridae* butterflies to exotic invasive hosts

Alexander Braczkowski

University of Oxford, UK

Who bites the bullet first? Leopard susceptibility to trophy hunting in South Africa

Cara Brook

Princeton University

Diversity and disease: Conservation and public health aligned on the eighth continent

Fernando Carvajal

Unidad de Limnología y Recursos Acuáticos (ULRA), Bolivia

Fish-AMAZBOL: a database of fish species richness in Bolivia's Amazon Basin

Charlotte Chang

Princeton University

Habitat loss and the illegal songbird trade in tropical Asia

Adrienne Chitayat

Antioch University New England

The effects of forest fragmentation on the behavioral ecology of chimpanzees

Andrew Collins

Columbia University

Citizen science and conservation: Exploring urban biodiversity

Sara Collins

Carleton University, Canada

Influences of agricultural landscape pattern on aquatic biodiversity

Edward Cruz

Pace University

The threespine stickleback in Alberta: A candidate for eradication or protection?

Laura Cussen

Stanford University

Applying local ecological knowledge to the conservation of the Hispaniolan Solenodon

Allison Devlin

State University of New York College of Environmental Science and Forestry

Population persistence of Jaguar (*panthera onca*) in the Brazilian Pantanal

Katherine Dilliplane

Fordham University

The role of sub-lethal lead poisoning in raptor deaths

Jeremy Feinberg

Rutgers University

A new frog from the urban northeast US: Discovery, ecology, and conservation concerns

Tim Frankstone

Mianus River Gorge & Sleepy Hollow High School

The diet of an intra-United States exotic millipede *Boraria stricta*

Katelynn Frei

Antioch University New England

Use of cameras to assess nocturnal primates in Nyungwe National Park, Rwanda, Africa

Rebecca Fuda

State University of New York College of Environmental Science and Forestry

Carnivore conservation in Northwest Uganda: Assessing human impacts and attitudes

Melina Giakoumis

Columbia University

Population genetics of Pallas's Cat in Mongolia

Sean Giery

Florida International University

Effects of ecosystem fragmentation on coloration in the Bahamas mosquitofish

Cristina Gomez Garcia-Reyes

Durrell Institute of Conservation and Ecology

Land-ownership transitions and the role of local tenure in connectivity conservation

Lisbet Gonzalez-Oliva

Institute of Ecology and Systematic, Cuba

Conservation of rare and endangered Cuban seabeach amaranth (*Amaranthus minimus*)

William Haffey

Fordham University

Avian perceptions of patterned glass windows

Maria Hällfors

Finnish Museum of Natural History, University of Helsinki, Finland

Coming to terms with assisted migration

Fabio Hernandez

Universidade Estadual Paulista (UNESP), Brazil

A treasure chest of unexplored diversity: Feather mites of endangered birds in Brazil

Felipe Hernandez

University of Florida

Influence of heavy metal contaminants on microbiota diversity in terrestrial mammals

Tracey Higa

Pace University

Long-term trends in fish communities in the Hudson River estuary

Joanna Jack

Carleton University, Canada

Is noise of mortality driving road effects on birds?

Carolyn Koestner

Mianus River Gorge & Mamaroneck High School

Day and seasonal activity patterns of coyotes in the NYC metropolitan area

Suzanne Macey

Fordham University

No place like home? Using microsatellites to determine nasal homing in bog turtles

Marcela Marquez

University of Florida

Factors influencing conservation behavior change of wine producers in central Chile

Lisa McManus

Princeton University

Modeling fine-scale coral connectivity on the Bermuda platform

Angelica Menchaca

Columbia University

Population genetics of jaguars (*Panthera onca*) from Belize

Megan Morrissey

Duquesne University

Effects of elevated TDS on the survival and behavior of *D. ochrophaeus*

Alexis Mychajliw

Stanford University

Integrating ancient and modern DNA to conserve a "living fossil" mammal, the Solendon

Ojetunde Ojewola

University of Ibadan, Nigeria

Ecological basis for ecotourism development in Okomu National Park, Nigeria

Puneet Pandey

Wildlife Institute of India

Conservation needs multidisciplinary approach! - A tale of orphan tiger cubs

Carmen Julia Quiroga

WildCRU, UK

Behavioral ecology of non-adult white-bearded gibbons (*Hylobates albibarbis*)

Tsilavina Ravelomanana

University of Antananarivo, Madagascar

Malagasy endemic fish conservation, Nosivolo river case

Shannon Reddy

Mianus River Gorge & Blind Brook High School

Using camera traps to test the efficiency of hair and box traps for sampling coyotes

Joel Emmanuel Sabimana

Rwanda Natural Resources Authority, Lands and Mapping Department

Urbanization threats to sustainable wetlands protection: A case study of Butare Town

Andrea Patricia Thomen

State University of New York College of Environmental Science and Forestry

Evaluating avian assemblages in Dominican cacao farms: Management and conservation

Andrew Tilman

Princeton University

A model of the interactions between humans and a fishery

Lucia Tonelli

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Comparing deer abundance estimates using baited and unbaited camera stations

Hope Usieta

University of Cambridge, UK

Biodiversity in African farmland depends on the sex of the farmer

Charles Van Rees

Tufts University

A new estimate of historic wetland loss in Hawai'i

John Vanek

Hofstra University

Spatial ecology of eastern hognose snakes at the northeastern extent of their range

Francisca Vidal-Garcia

Instituto de Ecologica A.C., Mexico

Current distribution of Mexican primates: Using models as tools of quest on field

Rebecca Walling

State University of New York College of Environmental Science and Forestry

Invasive earthworms affect soil niches: Implications for ectomycorrhizal diversity

Jessica Welch

University of Tennessee

Effects of invasion on the Pacific sheath-tailed bat

Steven Yoo

Mianus River Gorge & Mamaroneck High School

Using automatic species recognition software to identify animals in wildlife camera

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The Center for Biodiversity and Conservation at the American Museum of Natural History connects diverse perspectives and sources of knowledge to real-world conservation problems and solutions. Our broad range of programs around the world fosters the ongoing discovery, awareness, and conservation of life on this planet, and integrates the Museum's science, collections, and technology into conservation action. The CBC is a leader in convening and connecting key actors for strategic collaborations that bridge disciplines and address critical conservation questions. By working closely with communities and local partners to establish common goals and research priorities, we design, implement, evaluate, and adaptively manage model conservation programs, and share our results with people facing similar challenges, to span the full life-cycle of conservation. Through multiple initiatives, the CBC strengthens the ability of community leaders, educators, managers and other conservation professionals to meet conservation challenges.

