

# ICC

**Integrative Conservation Conference**

**February 6 – 9, 2020**  
**Athens, Georgia**

# 2020 SCHEDULE

## Russell Building Special Collections Library



<b>Thursday</b> <b>February 6<sup>th</sup></b>	5:00-6:00 pm 6:00-7:15 pm 7:45-9:30 pm	<b>Registration</b> <b>Opening Keynote Talk by Elaine Gan</b> <b>Social at Creature Comforts Brewery</b>	2nd Floor Hallway Room 271 271 W Hancock Ave
<b>Friday</b> <b>February 7<sup>th</sup></b>	7:45-9:45 am 8:00-10:00 am 10:00-10:10 am 10:10-11:25 am 11:25-11:40 am 11:40 am-12:45 pm  12:45-2:00 pm  2:00-3:05 pm  3:05-3:30 pm 3:30-5:00 pm 5:00-6:30 pm	<b>Registration</b> <b>2-hr Workshops</b> <b>Coffee Break</b> <b>Keynote Address by Pamela McElwee</b> <b>Coffee Break</b> <b>Presentation Sessions:</b> Engagement Beyond Academia Political Ecology <b>Break for Lunch</b> <b>Inclusivity and Diversity in Conservation:</b> <b>Discussion Lunch</b> <b>Presentation Sessions:</b> Human Wildlife Interactions Collaborations Outside Academia Human Values and Perspectives <b>Coffee Break</b> <b>Interdisciplinary Panel</b> <b>Poster/Exhibitor Session and Reception</b>	2nd Floor Hallway Breakout Rooms 2nd Floor Hallway Room 271 2nd Floor Hallway  Room 277 Room 271  Room 285  Room 271 Room 258 Room 277 2nd Floor Hallway Room 271 Room 285
<b>Saturday</b> <b>February 8<sup>th</sup></b>	8:15-9:15 am 9:15-9:25 am 9:25-10:30 am  10:30-10:40 am 10:40 am-12:00 pm  12:00-1:20 pm 1:20-2:30 pm  2:40-5:40 pm 5:40-6:30 pm 6:30-8:30 pm	<b>1-hr Workshops</b> <b>Coffee Break</b> <b>Presentation Sessions:</b> Sustainability and Resilience Wildlife Conservation <b>Coffee Break</b> <b>Panel: A Pen and Paper Coalition</b> <b>Presentation Sessions:</b> Issues in Forest Conservation Brazilian Natural Resource Governance <b>Break for Lunch</b> <b>Presentation Sessions:</b> Non-Human Animals and Conservation Environmental Justice and Equity Speed Talks Urban Environments <b>Problem Solving Mini-Charrette†</b> <b>Break for Dinner*</b> <b>Conservation and the Arts:</b> <b>UGA Researcher-Composer Collaborations</b>	Breakout Rooms 2nd Floor Hallway  Room 277 Room 271 2nd Floor Hallway Room 285  Room 277 Room 271  Room 258 Room 285 Room 271 Room 277 Room 285  Room 271
<b>Sunday</b> <b>February 9<sup>th</sup></b>	8:00 am~1:30 pm	<b>Tours and Fieldtrips</b>	Around Athens

† Coffee and snacks will be available during the charrette.

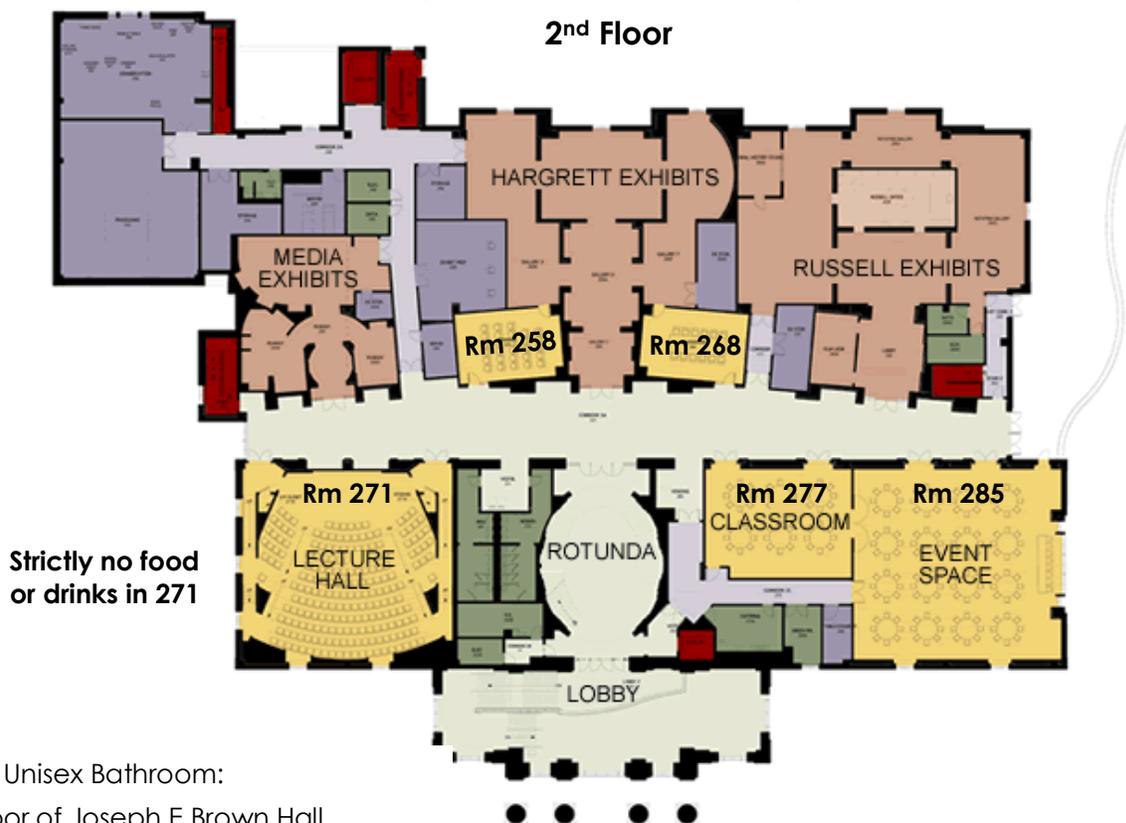
\*The Holy Crepe food truck will be outside (4:30-6:30 pm, Saturday) as an option for light dinner (~\$9.80 per crepe).

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### Special Collections Library

#### 2<sup>nd</sup> Floor



Nearest Unisex Bathroom:

1<sup>st</sup> Floor of Joseph E Brown Hall

Nearest Lactation Room:

434 Correll Hall

# KEYNOTES: DRS. ELAINE GAN & PAMELA MCELWEE



**Dr. Elaine Gan**

Assistant Professor | New York University  
[elainegan.com](http://elainegan.com)

## **As Wetlands Disappear: More-Than-Human Worlding in California**

Thursday, February 6, 6:00 – 7:15 pm

The loss of wetlands in California's Central Valley is nearly complete. Agriculture and real estate development have left little more than 50,000 hectares, or less than 3% of two million hectares known to have existed before European invasion. This paper attends to a trio that comes together in these wetlands—birds, rice, and water—and explores how transdisciplinary research offers insights into more-than-human worlding.

Dr. Gan is interested in mapping more-than-human worlds. Her transdisciplinary practice combines methods from art, science, and digital/environmental humanities to study the interdependencies between species, machines, and landscapes over time, with a particular interest in plants and fungi. She's an artist and theorist at the *Center for Experimental Humanities and Social Engagement*. She leads a *Multispecies Worldbuilding Lab* at NYU and is co-editor of *Arts of Living on a Damaged Planet: Ghosts and Monsters of the Anthropocene* (Minnesota 2017).



**Dr. Pamela McElwee**  
Associate Professor | Rutgers University  
[pamelamcelwee.com](http://pamelamcelwee.com)

## **Science-Policy Assessments for Conservation: Motivating Action or Reifying Authority?**

Friday, February 7, 10:10 – 11:25 am

Science-policy platforms like IPCC and IPBES have recently issued dire warnings about the state of our planet. These intergovernmental institutions present themselves as assessing and compiling the 'best available science' for policymakers, and environmental heroes like Greta Thunberg have gained fame by telling the world to 'listen to the scientists'. Yet the panels have been accused of both downplaying the risks (by some outside scientists and environmental advocates) and overstating the case (by denialists and business interests), leading to the question: what is their role in an increasingly fractious, 'fake news' world? Are these science-policy assessments really the best way to motivate action, either by policymakers or individuals? Do they speak truth to power, or have they become a powerful truth? Based on my experience as a lead author for both IPCC and IPBES, as well as studies in the science-policy literature, this talk will reflect on how to reconcile the competing demands on our knowledge institutions, and how to improve them by building better connections to critical social science.

Pamela McElwee is an interdisciplinary environmental scientist whose research explores human adaptation to global environmental change, with particular focus on biodiversity conservation and climate change in Asia. McElwee is one of the lead authors of the special report Climate Change and Land, released by the International Panel on Climate Change (IPCC) in August 2019, and was also a lead author on the Global Assessment of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) released in May 2019. She has worked on environmental policy at the White House, in the US Senate, and at the US EPA. She currently serves as a group lead for the Cultural Practices and Ecosystem Management group of the International Union for Conservation of Nature's (IUCN) Commission on Ecosystem Management. McElwee is an Associate Professor in the Department of Human Ecology in the School of Environmental and Biological Sciences at Rutgers University, and was recently awarded an Andrew Carnegie Fellowship to write a book on the environmental history of the Vietnam War.

# SESSION DETAILS

**Bold** indicates presenting author

## Friday 11:40 am – 12:45 pm

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### Engagement Beyond Academia: Preliminary & Proposed Research

Room 277

Conservation Partnerships: Rainforest Trust's Fellows and Guardians Programs

**Gabriela Fleury**, Rainforest Trust

Bridging the Gaps: How Conservation Research can Help Develop Young Adult Identity

**Tobias Landberg**, Amphibian Foundation

Elephants: "Gateway" Species or Just a Quick High?

**Jacqui Sadashige**, Miami University

Realizing the Ecological Self Through Inspirational Environmental Literature

**Erika Smits**, Swansea University

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### Political Ecology: Preliminary & Proposed Research

Room 271

Conservation and Political Conflict on Changing Colombian Landscapes

**Olivia Ferrari**, University of Georgia

A Critical Physical Geography of Ecological Science at the U.S.-Mexico Border

**Rachel Arney**, University of Georgia

Overtourism and Visitors' Place Attachment Building in Suzhou Historic Gardens

**Jingxian Li**, College of Environment + Design, University of Georgia

UNESCO's Erasures of Indigeneity at Mulu Park in Malaysia

**Haley DeLoach**, University of Georgia

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## Friday 2:00 – 3:05 pm

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### Human Wildlife Interactions

Room 271

Using Empirical Data to Inform Deductive Vulnerability Assessments in Georgia's Coastal Plain: A Multi-Method Approach to Prioritizing Species for Conservation Action

**Elizabeth Annie Paulukonis**<sup>1</sup>, Nathan Nibbelink<sup>1</sup>, and Josh Reece<sup>2</sup>

1. University of Georgia, 2. California State University, Fresno

Strobe Lights Help You Sleep At Night: The Direct and Indirect Benefits of Visual Predator Deterrents in the Himalayas

**Laura Talbert**, University of Kent

Challenges with Using Species Status Assessments to Evaluate Risk and Make Listing Decisions Under the U.S Endangered Species Act

**Brian Crawford**, Georgia Cooperative Fish & Wildlife Research Unit, University of Georgia

To Mitigate or not to Mitigate: A Concept for Amphibian Conservation in the Context of Disease

**Joe Mendelson**, Zoo Atlanta/Georgia Tech

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## Friday 2:00 – 3:05 pm (continued)

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### Collaborations Outside Academia

Room 258

Multimodal Publication in Community-Based Environmental Research Collaborations: Decisions and Challenges

**Julie Velásquez Runk**, UGA and Smithsonian Tropical Research Institute

Communicating with Policymakers: A Mini-Bootcamp on How and Why

**Micah Miles**, Warnell School of Forestry & ICON, University of Georgia

Socio-Environmental Governance and the Role of Civil Society: The Case of the Mato Grosso Sustainable Municipalities Program

**Oswaldo Medina-Ramirez**, University of Florida

Climate Change Engagement via Art Based Collaborations with the Community

**Shafkat Khan**, Amy Sullivan, Katie Feilen, Stephanie Danker, and Shara Clark, Miami University (Ohio)

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### Human Values and Perspectives

Room 277

An Evaluation of Integrative Course Development: Unifying the Climate Crisis and Undergraduate Psychology Education

**Allison Howard**, Department of Psychology, University of Georgia

Active Learning in the Conservation and Biology Classroom

**Gary Grossman**, Warnell and ICON Program, University of Georgia

Who's Afraid of the Big Bad Wolf? Socio Economic Impact Assessment of Wolf Population in Croatia

Sanja Tišma and **Daniela Angelina Jelinčić**, Institute for Development and International Relations, Croatia

Current and Future Challenges for Conservation Decision-Support Technologies

**Alec Nelson**, Integrative Conservation – Warnell School of Forestry, University of Georgia

## Saturday 9:25 – 10:30 am

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### Sustainability and Resilience: Preliminary & Proposed Research

Room 277

Indigenous-Led Conservation and Climate Justice in the Ecuadorian Amazon

**Louisiana Lightsey**, University of Georgia

Coastal Wastewater and Climate Change: The “Why?”, “Where?”, “Who?”, “How?”, and “When?” of Adaptation

**Courtney Balling**, University of Georgia

Socio-Ecological Connectivity & Diversity Conservation in Eastern & Central India

**Akanksha Sharma**, Odum School of Ecology, University of Georgia

## Saturday 9:25 – 10:30 am (continued)

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### Wildlife Conservation: Preliminary & Proposed Research

Room 271

Multi-Community Survey and Interview Project to Assess Human-Orangutan Conflict and Impacts of Education and Outreach Near Gunung Palung National Park, West Kalimantan, Indonesia

**Laura Brubaker-Wittman**, Boston University

An Integrated Approach to Understanding Human-Jaguar Conflicts and Promoting Coexistence in the Brazilian Amazon

**Wezddy Del Toro-Orozco**<sup>1,2</sup>, Silvio Marchini<sup>3</sup>, Emiliano Ramalho<sup>1</sup>, John Polisar<sup>4</sup>, Nathan Nibbelink<sup>2</sup>

1. Instituto de Desenvolvimento Sustentavel Mamiraua; 2. University of Georgia's Integrative Conservation (ICON) Ph.D. program, 3. Laboratório de Ecologia, Manejo e Conservação de Fauna Silvestre-ESALQ-USP, 4. Wildlife Conservation Society Americas and Species Programs

Conservation of Baird's Tapirs in a Fragmented Landscape in Northwestern Costa Rica

**Jorge Rojas Jimenez**, UGA/ICON/Warnell School of Forestry & Natural Resources/Costa Rica Wildlife Foundation

## Saturday 10:40 am – 12:00 pm

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### Issues in Forest Conservation

Room 277

Positioning Scientists as Relevant and Respectful Partners in Ecological Restoration

**Elizabeth King**, Hannah Morris, and Dessa Dunn, University of Georgia

Developing a Decision-Support Tool for Management Alternatives to Restore and Conserve Maritime Live Oak Forests

**Dessa Dunn**, University of Georgia

Insecticide Use for Eastern Hemlock Conservation: Risks to Endangered Plant Pollinators and Assessing Best Practices with Resource Managers

**Elizabeth McCarty**<sup>1</sup>, Carrie Radcliffe<sup>2</sup>, Anthony Lagalante<sup>3</sup>, and Victoria Cassidy<sup>1</sup>

1. Warnell School of Forestry and Natural Resources; 2. Atlanta Botanical Garden; 3. Villanova University

Research and Conservation of a Bird-Plant Network in an Andean Montane Forest

**Oscar Gonzalez**, Emmanuel College, GA

An Integrated Approach to Understanding African American Family Forest Owners in the Southern United States

**Noah Goyke**, University of Georgia, Warnell School of Forestry & Natural Resources

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### Brazilian Natural Resource Governance: Towards an Integrative Approach

Room 271

Organized by Drs. Don Nelson and Greg Thaler (University of Georgia)

Discussant: Juliana Santiago (University of Florida)

Logging in Protected Areas in Amazonia: Communities that Flourish can Inform Those that Struggle

**Ana Luiza Violato Espada**<sup>1,2</sup>, Natalie Cooper<sup>1</sup>, Fernanda Fonseca<sup>3</sup>, Dr. Karen Kainer<sup>4</sup>, Dr. Lucia Wadt<sup>5</sup>, Dr. Denyse Maria Gomes Mello<sup>6</sup>

1. School of Forest Resources and Conservation, University of Florida; 2. Tropical Conservation and Development Program, University of Florida; 3. Brazilian Agricultural Research Corporation (Embrapa-AC), Brazil; 4. School of Forest Resources and Conservation and Center for Latin American Studies, University of Florida; 5. Brazilian Agricultural Research Corporation (Embrapa-RO), Brazil; 6. International Center for Tropical Agriculture (CIAT-Brasil)

## Brazilian Natural Resource Governance (continued)

Brazil Nuts or Cattle? The Relationship Between Forest Resource Access and Livelihood Strategies in an Extractive Reserve, Brazilian Amazon

**Bruno G. Ubiali**<sup>1</sup> and Miguel N. Alexiades<sup>2</sup>

1. Department of Anthropology, UGA; 2. School of Anthropology and Conservation, University of Kent

To Participate or not to Participate? Collaboration and Social Learning Within a Multi-Organizational Network Working in the Brazilian Amazon.

**Carolina de Olivera Jordão**<sup>1</sup>, Robert Buschbacher<sup>1</sup>, Heber Queiroz Alves<sup>2</sup>, and Márcia Soares<sup>3</sup>

1. School of Natural Resources and Environment/Tropical Conservation and Development Program University of Florida, 2. Instituto Socioambiental, 3. Fundo Vale

Collaborative Methodology for Mapping the Risks of a Water System and Identifying External Influences

**Gabriela de Azevedo Reis**<sup>1</sup>, Francisco de Assis de Souza Filho<sup>1</sup>, Donald R. Nelson<sup>2</sup>, Sandra Helena Silva de Aquino<sup>1</sup>, and Taís Maria Nunes Carvalho<sup>1</sup>

1. Department of Environmental Engineering, Federal University of Ceará, 2. Department of Anthropology, University of Georgia

Environmental Governance and Participation in a Marine Extractive Reserve: A Case Study in Marajoara Amazon, Pará, Brazil

**Evandro Carlos Costa Neves**, Amazonian Institute for Family Agriculture, Federal University of Pará

## Saturday 1:20 – 2:30 pm

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### Non-Human Animals and Conservation

Room 258

Iconic Species: Hard to Define but Easy to See

**Sarah Horsley**, University of Georgia

Identifying Tradeoffs in Locally-Developed Conservation Scenarios for Neotropical Birds

**Cody Cox**<sup>1</sup>, Nate Nibbelink<sup>1</sup>, and Wayde Morse<sup>2</sup>

1. University of Georgia; 2. Auburn University

The Influence of Pesticide Exposure and Misleading Social Cues on Bumble Bee Foraging Decisions

**Donna McDermott**, Emory University

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### Environmental Justice and Equity

Room 285

Imagined Conflict and Compatible River Use Niches in the Upper Chattooga River Basin

**John McGreevy**, University of Georgia, Integrative Conservation and Anthropology

“É da terra que a gente tira o alimento e tira o sustento”: Governance and Power Dynamics in Family Farming in Mato-Grosso, Brazilian Amazon

**Paula Bak**, University of Florida – MDP Student

Analysis of the Infrastructure to Serve Social Equity: The Case of the Atlanta Beltline Project

**Jungho Ahn**, University of Georgia, College of Environment + Design

Making the Research Enterprise More Sustainable and More Equitable

**Star Scott**, University of Georgia

## Saturday 1:20 – 2:30 pm (continued)

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### Speed Talks

Room 271

Connecting Flowering Phenology to Plant Reproductive Success in Subalpine Meadows

**Annie Schiffer**, Emory University

How Policy Goals Regarding CO<sub>2</sub> Reduction Can Affect Private Forests Management Plans

**Behnoosh Abbasnezhad**, Warnell School of Forestry and ICON Program

Species Interactions in an Agricultural World

**Beth Morrison**, Emory University

Realism versus Utility: Evaluating the Assumptions of a Drift-Foraging Energetics Model for Stream Fishes

**Bryan Bozeman**, Warnell School of Forestry and ICON Program, University of Georgia

Automating Mutualistic Network Generation

**Caleb Sowers**, Emory University

Is Biodiversity Protection or Amenity Demand More Important for Indian Zoos?

**David Martin**, Davidson College

Human Dimensions of Large-Scale Landscape Ecological Restoration

**Jason Gordon**, University of Georgia

Can We Decolonize Conservation? Community-NGO Collaborations in an Era of Extinction

**Kristen Morrow**, University of Georgia

Remote Sensing to Urban Visualization: Is there an Easy Bridge?

**Lynn Abdouni**, University of Georgia

Plant Pollinators Networks of Southeastern Grasslands

**Melissa Caspary**, Georgia Gwinnett College

Social License to Operate: A Framework for Titanium Mining Near Okefenokee Swamp

**Todd Rasmussen**, University of Georgia

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### Urban Environments

Room 277

Pop-Up Ecologies: Urban Gardens in Chicago

**Molly Doane**, University of Illinois-Chicago

Loss of Potential Chimney Swift (*Chaetura pelagica*) Nest and Roost Sites Over Ten Years in a College Town

**Alexis Smith**, University of Illinois at Chicago

Assessing the Impacts of Land Use Policies on the Provisions of Ecosystem Services in the Upper Chattahoochee Watershed, Georgia, United States

**Fabio Jose Benez Secanho**, University of Georgia

# INTERDISCIPLINARY PANEL

## Motivating and Creating Conservation Action

Friday, February 7, 3:30 – 5:00 pm

Room 271

Individuals and organizations working on conservation issues frequently face challenges when communicating conservation priorities to the general public, identifying shared goals and objectives with various stakeholders, and implementing conservation initiatives. A panel of interdisciplinary conservation professionals with diverse experiences in art, science, policy, activism, teaching, and community engagement will share lessons they've learned through efforts to highlight conservation issues and bring about change. Time will be allocated for audience questions.

**Panelists: Elaine Gan\*, Pamela McElwee\*, Jacqueline Echols, and Judy Yi**



**Dr. Jacqueline "Jackie" Echols** has been an environmental activist in support of water and tree protection for almost 25 years. She has helped to organize and provide leadership for community-based grassroots organizations such as the Clean Streams Task Force which advocated for the elimination of Atlanta's combined sewer system in the late 1990s as part of the Upper Chattahoochee Riverkeeper federal consent legal action. Dr. Echols served on the Atlanta Tree Conservation Commission as a member and as chair from 2004-2006 and is responsible for protecting the magnificent old oaks that are still standing on the site from being destroyed during the redevelopment of the old Perry Homes public housing project (now West Highlands at Perry Blvd) in northwest Atlanta. In 2010, Dr. Echols assumed the role of Board President for South River Watershed Alliance. The Alliance's mission is to restore and protect the South River which essentially means improving its water quality and recreational value. Over the last decade, the organization has strategically implemented programs such as their Beyond the Bridge canoe and kayak paddles and taken legal action that is designed to achieve this goal. In 2017, Dr. Echols received GreenLaw's Environmental Hero Award for her years of work and dedication to protecting the environment.



**Judy Yi** is the Director of Outreach for Trees Atlanta, a nonprofit organization that protects and improves Atlanta's urban forest. Judy works with local community groups, city staff and elected officials, public agencies, and other nonprofit organizations on collaborative efforts impacting our urban forests, which includes trees in public spaces and streets, residential yards, and forests within city boundaries. Currently her major project is advocating for the rewrite of a stronger tree protection ordinance in the City of Atlanta.

Contact: [judy@treesatlanta.org](mailto:judy@treesatlanta.org)

\*Biographies for Gan and McElwee on Pages 4-5

# POSTER SESSION

Friday, February 7, 5:00 – 6:30 pm

Room 285

A Spatial Analysis of Forest Cover Change within Costa Rica's Biological Corridors from 2014-2019  
**Aidan Moore**, Furman University

Genetic Connectivity of *Porites astreoides* Along the Florida Keys Reef Tract  
**Dominique Gallery**<sup>1,2</sup>, Michelle L. Green<sup>1</sup>, Ilsa B. Kuffner<sup>2</sup>, Elizabeth A. Lenz<sup>3</sup>, and Lauren T. Toth<sup>2</sup>  
1. University of South Florida St. Petersburg; 2. U.S. Geological Survey St. Petersburg Coastal and Marine Science Center; 3. Hawai'i Institute of Marine Biology

The Values of the Sendero Pacifico to Rural Communities in the Bellbird Biological Corridor  
**Katherine Denney**, Furman University

Conservation Behavior- The Link Between Economic Development & the Environment  
**Sameera Gujarathi-Talati**, Odum School of Ecology

Regional Goals, Local Actions: A Network Approach to Addressing Cross-Scale Challenges in Landscape-Level Conservation  
**Sarah McLean**, Furman University, Department of Earth and Environmental Sciences

Market-Based Panacea or Path Dependent Conservation? A Look at PES Intentions and Implementation in Costa Rica  
**Eileen Joseph**, Furman University

From the Individual to the Collective: Water Sports as a Tool of Connection with Nature in Urban Areas in the Brazilian Amazon  
**Igor Vianna Sousa** and Dr. Angelica Almeyda Zambrano, University of Florida

The Terms Foresters and Planners in the United States Use to Infer Sustainability in Forest Management Plans: A Survey Analysis  
**Alba Rocio Gutierrez Garzon**, Warnell School of Forestry and Natural Resources, University of Georgia

Geographic Variation in Plant-Pollinator Interaction Rewiring  
**Kaysee Arrowsmith**, Micah Sharer, and Berry Brosi, Emory University

Development and Implementation of the Upper Oconee Watershed Clean Drinking Water Fund  
**Cassidy Lord**, University of Georgia

Evidence of shifting avian communities in Midwestern agricultural landscapes: should we shift conservation prioritization and action?  
**John E. Quinn** and Jacob Gerber, Furman University

## SILENT AUCTION

ICC 2020 will include a silent auction to benefit the UGA Integrative Conservation (ICON) program's graduate student organization, OINC. We've received many donations of art, gift cards, event tickets, and more! Funds raised through the auction will help OINC defray costs of bringing in speakers for seminars or workshops, purchasing equipment and supplies for communal use by ICON students, or subsidizing the cost of trainings to benefit students as they move forward in their conservation careers. Winners of the silent auction will be announced at the end of the Poster/Exhibitor Session and Reception on Friday, February 7.

# EXHIBITORS

## **Center for Integrative Conservation Research** (<http://cicr.uga.edu/>)

*University of Georgia*

Nate Nibbelink ([cicrdirector@uga.edu](mailto:cicrdirector@uga.edu))

The Center for Integrative Conservation Research (CICR) promotes an integrative approach to research and training that draws on natural science, social science, humanities, and the arts to enhance solutions to environmental conservation and sustainability challenges.

## **Ideas for Creative Exploration** (<http://ice.uga.edu>)

*University of Georgia*

Mark Callahan ([mark.callahan@uga.edu](mailto:mark.callahan@uga.edu))

Ideas for Creative Exploration is an interdisciplinary initiative for advanced research in the arts at the University of Georgia. It is a collaborative network of faculty, students, and community members from all disciplines of the visual and performing arts in addition to other disciplines in the humanities and sciences. Ideas for Creative Exploration enables all stages of creative activity, from concept and team formation through production, documentation, and dissemination of research.

## **Institute for Resilient Infrastructure Systems** (<http://iris.uga.edu/>)

*University of Georgia*

Sarah Buckleitner ([sarah.buckleitner@uga.edu](mailto:sarah.buckleitner@uga.edu))

Institute for Resilient Infrastructure Systems (IRIS) brings together an interdisciplinary team of experts with extensive experience in creating pragmatic and effective infrastructure strategies that reduce hazards vulnerability, provide water security, reduce pollution, and restore ecosystems while providing additional social benefits and engineering functions. IRIS seeks to redefine the meaning of infrastructure to better serve multiple community goals and promote this re-conception with innovative forms of stakeholder engagement and communication to maximize the full range of economic, social, and environmental benefits possible.

## **Integrative Conservation PhD Program** (<http://icon.uga.edu/>)

*University of Georgia*

Nate Nibbelink ([cicrdirector@uga.edu](mailto:cicrdirector@uga.edu))

As we increasingly face issues of climate change, resource degradation, and poverty, we need new approaches both inside and outside of the university. The Integrative Conservation (ICON) PhD program at UGA trains the next generation of environmental researchers and practitioners, providing students the knowledge to confront complex environmental challenges and the management and communication skills to work effectively across disciplinary boundaries with practitioners and with stakeholders.

## **Office of Sustainability** ([www.sustainability.uga.edu](http://www.sustainability.uga.edu))

*University of Georgia*

Tyra Byers ([tyrab@uga.edu](mailto:tyrab@uga.edu)) and Claudia Miklosik ([claudia.miklosik@uga.edu](mailto:claudia.miklosik@uga.edu))

The Office of Sustainability is committed to creating inspired leaders, stronger communities and thriving natural systems through experiential learning, research, service, student engagement and campus operations at the University of Georgia.

## **River Basin Center** (<https://rivercenter.uga.edu/>)

*University of Georgia*

Kyle Connelly ([kyle.connelly@uga.edu](mailto:kyle.connelly@uga.edu))

The River Basin Center connects freshwater science to management and policy. Although affiliated with the Odum School of Ecology, it is known for an interdisciplinary approach; its members are drawn from units across the University of Georgia. River Basin Center faculty, staff and students work on aquatic management issues around the globe, but the center maintains an emphasis on the southeastern US.

## **Upper Oconee Watershed Network (UOWN)** (<http://uown.org/>)

*Athens GA/Environmental Non-Profit*

Bruno Giri, Education Chair ([education@uown.org](mailto:education@uown.org)) and Cassidy Lord, Board Chair ([info@uown.org](mailto:info@uown.org))

Protecting the Upper Oconee Watershed through monitoring, education, advocacy, and recreation.

# FRIDAY WORKSHOPS

February 7, 8:00 – 10:00 am

## **Building Communicative and Collaborative Capacity for Conservation Through Dialogue**

**Room 277**

*Dr. Marisa Rinkus, Michigan State University (toolbox@msu.edu)*

During this two-hour workshop, participants will be introduced to the Toolbox Dialogue Initiative (TDI), a US NSF-sponsored project that uses structured, dialogue-based workshops to enhance communication and collaboration in cross-disciplinary teams. An evidence-based approach, the Toolbox dialogue method uses dialogue about research and practice worldviews to enhance self-awareness and mutual understanding, strengthening the collective epistemic foundation needed for effective collaborative research. The workshop will begin with a brief presentation highlighting the motivation and background of TDI, including how to practice reflexivity and perspective taking in building mutual understanding. Workshop attendees will then participate in a Toolbox dialogue session where they share their values, beliefs, and assumptions about conservation research and practice with other participants. The workshop will conclude with a co-creation activity designed to help participants identify what they have learned about themselves and how they can integrate what they have learned in their work.

More information about TDI can be found at <http://tdi.msu.edu/>

## **Inclusive, Evidence-Based Decision Making to Enhance Resilience in Socio-Ecological Systems**

**Room 285**

*Dr. Constance Neely, Senior Advisor at the World Agroforestry Center (ICRAF)*

The objectives of this interactive workshop are to enhance capacities to a) facilitate multi-stakeholder (science, practice, and policy) and cross-sectoral (multi-disciplinary, multi-ministerial) collaboration in complex systems; and b) engage stakeholders to use accessible scientific evidence and local experience to influence practice and policies within socio-ecological systems. The workshop will draw upon the global experiences of the Stakeholder Approach to Evidence-Based and Risk-Informed Decision Making (SHARED). The SHARED Decision Hub applies tailored, human-centered processes focused upon people, knowledge and systems to shift decision culture toward desired, transformational change. Participants will advance skills related visioning, structured stakeholder engagement and facilitation, root cause and stakeholder analyses, and the use of visually accessible evidence for enhancing negotiations and decision making.

## **Introduction to GIS and Community Mapping for Conservation Research**

**Room 268**

*Dr. Jerry Shannon, UGA Community Mapping Lab Director*

*Aileen Nicolas, Michelle Evans, and Dina Rasquinha, University of Georgia*

This session will introduce new and novice users to powerful tools for conservation research, mapping and spatial analysis. The first section of this workshop will introduce Geographic Information Systems (GIS) and community mapping and provide examples of their application in conservation research. The second section will briefly present participants to a selection of available GIS software, most of which are free and/or open source. Lastly, participants will brainstorm ways to integrate mapping with their own projects.

Note: There will be multiple opportunities to try out software, and participants are strongly encouraged to bring a laptop to this workshop.

# SATURDAY WORKSHOPS

February 8, 8:15 – 9:15 am

## **Ecological Grief – Working in Conservation in the Anthropocene**

**Room 268**

*Hannah Morris, Integrative Conservation PhD Program, University of Georgia*

Ecological grief is a term that is increasingly being used to describe the feelings of anxiety, sadness, loss, etc. that are related to witnessing environmental degradation, most often linked to climate change, both current and future. As people who research conservation issues that are often tightly linked to ecological loss/degradation – and their effects on human communities that inhabit and utilize those landscapes – we often witness the effects of climate change from the front lines, and that can be intensely psychologically demanding (see <https://www.nature.com/articles/s41558-018-0092-2>).

There is a growing acknowledgement of the phenomenon of ecological grief both within and outside of the scientific community, and as many people struggle to cope with these feelings there are an increasing number of resources available to understand ecological grief. This workshop aims to present some of those resources and strategies, but also simply foster a sense of community around this issue that so many of us face but may not always openly discuss.

## **Exploring Research as Craft: An Ongoing Workshop Series to Promote Cross-Discipline Communication by Examining Processes of Creating**

**Room 285**

*Alden DiCamillo, MFA, and Alex McClay, Lamar Dodd School of Art*

Exploring Research as Craft (ERAC) collaboratively engages seemingly disparate disciplines through craft, material meaning-making, and critical response. As entanglement and productive friction are increasingly recognized as vital tools within collaboration, there is a growing need to develop practices of intentional engagement. ERAC is a three-part workshop series to promote cross-disciplinary communication by conceptualizing research and practice as craft. The skill that a craftsperson as researcher develops includes intimate knowledge of materiality of the objects being transformed. The skill is not limited to the expertise a researcher develops using specific methods—such as conducting a literature review, setting up cameras to track animals, or measuring out microliters of a solution. Rather, the process of research also fosters intimate knowledge of the materiality of the objects used in research—the click of the researcher's keyboard that is used to conduct the literature review, the gentle torque needed to focus the camera to capture animal movements, or the touch necessary to avoid bubbles in the pipette used to measure solutions. This session seeks to deconstruct the process of Exploring Research as Craft, giving participants the tools and time for brainstorming the craft of their own work and methods for communication across spaces of differently produced knowledges.

# INCLUSIVITY AND DIVERSITY IN CONSERVATION DISCUSSION LUNCH

Friday, February 7, 12:45 – 2:00 pm

Room 285

Organized by Jon Hallemeier (UGA) and Jacqui Sadashige (Miami University)

**Guest Speakers:** Christina Crespo (UGA), Sammantha Holder (UGA), and Dr. Marisa Rinkus (Michigan State University)

Core themes of ICC 2020 are connecting across boundaries and fostering inclusive spaces to promote cross-cutting conservation work. These ideals are praiseworthy and necessary to achieve more just and innovative conservation solutions. However, serious progress towards these ideals requires confronting difficult issues around gender, race, and ability and how boundaries are maintained and spaces remain inaccessible, unwelcoming, or unsafe. We invite you to attend this topical lunch to sit, share, and strategize about issues of inclusivity. Guest speakers Christina Crespo and Sammantha Holder from the University of Georgia and Dr. Marisa Rinkus from Michigan State University will help frame our discussion, drawing on their knowledge and experience in working towards inclusivity and negotiating hard conversations. We acknowledge the discomfort that can come with these conversations and invite you to engage with us in radical vulnerability as we share experiences, questions, and insights. Specific areas of discussion might include education, fieldwork, and mentoring.

# A PEN AND PAPER COALITION: WRITERS AS AN ENGINE FOR CONSERVATION

Saturday, February 8, 10:40 am – 12:00 pm

Room 285

Panel organized by Caroline Karnatz (UGA)

**Panelists:**

Cecil Jennings, Professor of Forestry and Natural Resources (UGA)

Blake De Pastino, Writer, Host, And Producer at PBS Eons (PBS Digital Studios)

Kerry Neville, Professor of English (Georgia College and State University)

Michael Brian McClelland, PhD Candidate, English and Creative Writing (UGA)

In an age of global climate change, rampant deforestation, and fake news, the discipline of eco-writing—writing that focuses on ecology, natural resources, and conservation—is on the rise.

Transformative works like Carson's *Silent Spring* evidence the power of environmental literature to capture the attention of and inform the public. Writers, therefore, represent a crucial cross-disciplinary ally of conservation: their proven ability to disseminate information and generate emotional attachment to their subject matter makes writers a powerful engine for conservation.

Writers connect people to ideas; they humanize challenges and issues. When masterful writing combines with themes of conservation, the reader forms a unique, personal relationship with those themes. Eco-writers, via their commitment to spreading conservation through the craft of communication, ensure audiences of all ages and backgrounds—seniors, children, and everyone in between—receive stories of conservation successes and challenges that resonate on a deeply personal level, even prompting them to involve themselves in those challenges.

This diverse panel of expert eco-writers discusses the present and future of writing about current, historical, and projected conservation challenges, ranging from land use and development to climate change education.

They weigh questions of how best to convey the importance of conservation in a culture vying for our attention and how to engage their diverse audiences with issues of conservation. They also speak on the role and responsibility of the eco-writer in the greater world of conservation and on bridging the perceived divide between the arts and sciences for a more inclusive, cross-disciplinary future.

# PROBLEM-SOLVING MINI CHARRETTE

**Saturday, February 8, 2:40 – 5:40 pm**

**Room 285**

At the rapid-pace mini-charrette, conference attendees will form interdisciplinary teams to combine their skills, knowledge, and approaches to problem-solving to examine a socio-ecological issue. This year's mini-charrette focuses on the recovery efforts surrounding the flatwoods salamander, which has suffered as 90% loss in population since 2000. Recovery of this species is a complex process bridging across captive breeding and reintroduction, assessing existing populations, land and fire management, and collaborations across federal/state/academic partners.

The mini-charrette is in-part an exercise in brainstorming, concept mapping, working in interdisciplinary teams, and integrating diverse approaches to science and problem-solving. However, the mini-charrette also aims to produce novel ideas that contribute to a research agenda that may enhance efforts to sustain human needs and ecological systems. Participants will enjoy a fast-paced, fun, and creative exercise that allows opportunities to work in a team with other conference attendees and learn the myriad ways of "thinking and doing" in conservation science. This mini-charrette is a collaboration with the Amphibian Foundation and their frosted flatwoods salamander recovery partners.



**HOLY CREPE FOOD TRUCK OUTSIDE SPECIAL COLLECTIONS 4:30 – 6:30 PM (FEB 8)**

## CONSERVATION AND THE ARTS: UGA RESEARCHER-COMPOSER COLLABORATIONS

**Saturday, February 8, 6:30 – 8:30 pm**

**Room 271**



The concert is hosted by ICC and the UGA Student Composer Association. The pieces are all composed and performed by UGA music students in collaboration with ICON PhD students and are musical reflections of ICON students' research. This concert is an exciting engagement between conservation and the arts, so please come out and support our wonderful composers, performers, and researchers.

# FIELD TRIPS AND ACTIVITIES

Sunday, February 9

## **Complexities of Greenway Restoration in the Urban/Wildland Interface**

Trip Lead: Michael Wharton, Athens Clarke County Sustainability Office

When: 9:00 am – 12:00 pm

Cost: Free

Meeting Location: The Greenway Parking Lot at the corner of Dr Martin Luther King Jr Pkwy and College Ave, Athens, GA 30601

Transportation from the meeting location is provided.

Point of Contact: Katie Foster (k.gibson@uga.edu)

Wrap up your visit to Athens with a tour of restoration projects undertaken by the Athens-Clarke County guided by Mike Wharton, the Ecological Resource Administrator for the county's Sustainability Office. The tour will involve up to three sites, depending on the interests of the participants: a 13-acre urban restoration site, a nearby meadow being prepared for prescribed fire, and a 50-acre managed forest site focusing on native forest restoration. Expect to have discussions on gaps in the science of restoration ecology, the trade-offs associated with human and wildlife infrastructure and use at the wildland/urban interface, or the challenges experienced with public perception on invasive species management or fire restoration in an urban setting. We will have the opportunity to learn about and witness some creative ways Mike and his team are approaching these issues with tangible solutions like native-plant cheat sheets and seed bombs.

Please note that this trip involves frequent but non-strenuous walking, so we recommend that participants come prepared with appropriate footwear, clothing, hydration, and emergency medications (if needed).

## **Native Plant Walk and Botanical Garden**

Trip Lead: Docent at the State Botanical Garden of Georgia

When: 11:30 am – 1:00 pm

Cost: \$5

Point of Contact: Katie Foster (k.gibson@uga.edu)

Meeting Location: Visitor Center/Conservatory, 2450 S Milledge Ave, Athens, GA 30605

The State Botanical Garden of Georgia is a 313-acre conservatory operated by the University of Georgia and engages in conservation, research, and education programs for the public. With numerous demonstration gardens, greenhouses, and managed forests, the Botanical Garden is a key partner in conservation activities across the state, including the Georgia Plant Conservation Alliance and the Georgia Native Plant Initiative. This guided tour will provide a behind-the-scenes look at some of the conservation efforts of the garden. Topics may include: rare and endangered species conservation, habitat restoration, invasive species removal, and native plant ecology.

## Sunday Field Trips and Activities (continued)

### Group Run along the Oconee Rivers Greenway

Trip Lead: Nate Nibbelink, Center for Integrative Conservation Research and Angela Hsiung, ICON PhD Candidate

When: 8:00 am – around 9:00 am

Cost: Free

Point of Contact: Angela Hsiung (an.hsiung25@uga.edu)

Meeting Location: The UGA Arch on Broad Street at College Avenue, downtown

Enjoy a 5K or 10K group run led by the Director of the Center for Integrative Conservation Research, Nate Nibbelink, and ICON PhD Candidate, Angela Hsiung. We will leave from the ICONic Arch on Broad Street in downtown Athens and explore sections of the Oconee Rivers Greenway, which connects parks and protected riparian areas throughout the Athens area. The Greenway is a prominent fixture among Athens' running and cycling communities and is the result of decades of collaboration between a variety of stakeholders, city officials, and volunteers, who continue to work towards combined goals of enhancing conservation, recreation opportunities, and alternative transportation routes for Athens residents and visitors.

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