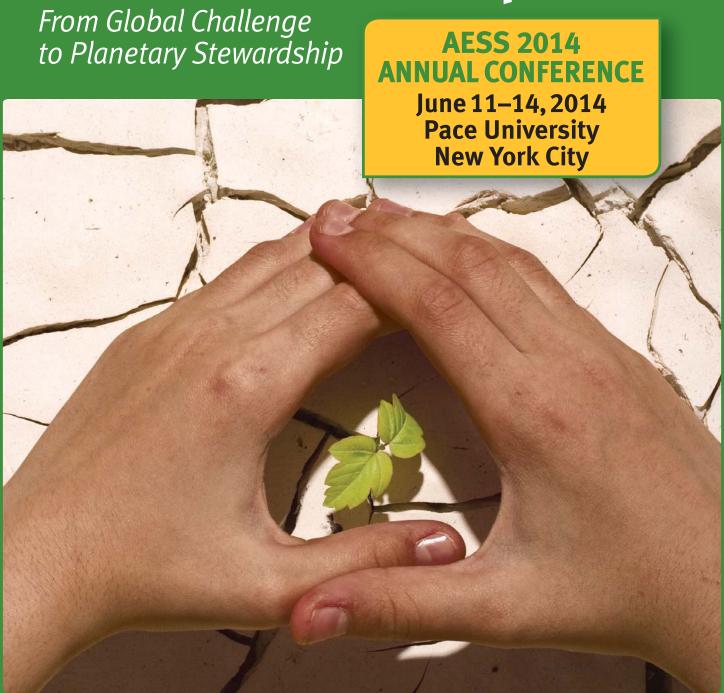
Welcome to the Anthropocene:



Hosted by
Pace Academy for Applied Environmental Studies
and Pace Institute for Environmental and Regional Studies





The Arts at AESS



Performances from The SciArt6

Wednesday, June 11

2:00 p.m. Workshop: Improv/Communication Workshop

(Schimmel Lobby)

Opening

Reception: Mannahatta – Manhattan (Bianco Room)

6:40 p.m. Performance: Empire State of Mind Part II—Ecology State of Mind

(Schimmel Theatre)

Thursday, June 12

9:10 a.m. Harper's Monologue – from Angels in America (Gymnasium)
 10:40 a.m. Puppet Show: Fanny the Farmer Meets a Troll (Student Union)

12:45 p.m. Performance: Leveraged Synergies Press Conference (Gymnasium)

3:40 p.m. Puppet Show: Fanny and Daisy Learn Urban Farming

(Student Union

5:45 p.m. Zero Waste Policy Games (Gymnasium)

Tyrone Hayes Rhymes (Gymnasium)

Friday, June 13

10:40 a.m. Performance: Wasted on Waste (Student Union)12:45 p.m. Leveraged Synergies Encounter (Student Union)

7:45 p.m. Performance: Scenes from the Anthropocene (Gymnasium)

Saturday, June 14

10:40 a.m. Interactive Performance: Zero Waste Policy Games (Student Union)

Featured Visual Artist

Elizabeth Demaray

June 11–14 (Fingesten Gallery)

Gallery Installation: Welcome to the Anthropocene

Thursday, June 12

4:00 p.m. Session: Walking Symposium (W-510)5:30 p.m. Gallery Reception (Fingesten Gallery)

Panel and Student Visual Art

une 11–14 Linda Gottesfeld (Bianco Room)

June 12–13 Panel Artist Exhibition (Student Union)

June 12–13 Student Art Slideshow (Student Union)

Film Night

Thursday, June 12 7:00 p.m.

Blood and Coral

Written, directed, and produced by Monty Hempel, president of Blue Planet United (Lecture Hall North)

The Wisdom to Survive: Climate Change, Capitalism & Community

A film by Old Dog Documentaries. Directed by John Ankele and Anne Macksoud (Lecture Hall West)

AESS ASSOCIATION FOR ENVIRONMENTAL STUDIES AND SCIENCES

AESS Mission

Association for Environmental Studies and Sciences (AESS) is an independent faculty-and-student-based professional association in higher education, designed to serve the needs of environmental scholars and scientists who value interdisciplinary approaches to research, teaching, and problem-solving.

Founded in 2008, the Association seeks to provide its members with the latest environmental information and tools to create better courses, strengthen research, develop more satisfying careers, harness the power of a collective voice for the profession, and enjoy each other's company at national and regional meetings.

A major aim of AESS is to encourage interdisciplinary understanding of environmental science, policy, management, ethics, history, and all of the other vital contributions of traditional disciplines. From its beginning, the Association has been envisioned as a community of environmental scholars and scientists, not a confederation of disciplines. Fundamental to its members' embrace of higher education is the notion that broad advances in environmental knowledge require disciplinary, interdisciplinary, and transdisciplinary approaches to research and learning.

Association for Environmental Studies and Sciences 1101 17th Street, NW Suite #250 Washington, DC 20036 Phone 202.207.0014 Fax 202.628.4311 E-mail lbirkey@ncseonline.org

www.aess.info

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Welcome

President



Welcome to the 2014 AESS Annual Conference with the theme "Welcome to the Anthropocene: From Global Challenge to Planetary Stewardship." Many of this year's panels will focus on the implications of this concept, popularized by atmospheric chemist and Nobel laureate Paul Crutzen in 2000, while others will challenge the proposition of whether we actually have entered into a new epoch, or whether the phrase has any real utility in helping environmental professionals grapple with the critical issues of this century and beyond. It is my hope that this will provide grist for the fascinating discussions that usually ensue at this conference during panels and in the corridors.

I believe that we have a provocative and engaging conference in store for you. Showcasing the talents of a diverse membership from the humanities, social sciences, and natural sciences, the program includes keynote addresses, panel and roundtable sessions, workshops, and field trips, a

"movie night," and art performances throughout the conference, along with awards, evening events, and lots of opportunities for informal conversation, network, and collaboration.

There are many who deserve thanks and praise for their terrific work behind the scenes to make this conference a success. Initially I want to thank Pace University for serving as the host of this year's conference. Pace's commitment to our field is embodied in its Academy for Applied Environmental Studies, which is also the fiscal sponsor and founding institution of the Environmental Consortium of Colleges & Universities, Pace Energy and Climate Center, and its charter membership in the Association for the Advancement of Sustainability in Higher Education's STARS program. More specifically, I'd like to thank Donna Kowal, the site coordinator for the conference for her attention to detail, unflagging energy and grace, as well as the local site planning team, including Michelle Land, Caroline Craig, and Robert Chapman. I would also like to thank Jennifer Joy, who coordinated the wonderful artistic component of the conference, which will be interwoven throughout events during the next few days.

This year's program was developed by a team of talented individuals on the Program Committee, who were guided by an outstanding program chair, Kim Smith, whose unceasing dedication to AESS has also included stints as President and a member of the AESS Board of Directors. Many thanks also to Kate O'Neill and the Awards Committee for organizing the award process for the Freudenburg Lifetime Achievement Award and the award for the most outstanding student paper delivered at the conference. Lyle Birkey (AESS/NCSE) and the UVM conference registration team have worked tirelessly behind the scenes to ensure smooth operation of the technical aspects of the conference. I thank David Blockstein and NCSE for their continued support of AESS, as well as the AESS Board of Directors for assistance with strategic planning and fundraising efforts. There are a number of major financial sponsors whose generous support helped make this year's conference program possible, and you will see these folks listed and mentioned throughout the program. AESS is grateful for your support.

I believe that AESS has an important role to play in helping to ensure that environmental studies and sciences programs flourish in the United States and globally. These programs, in turn, occupy a critical place in the academy, helping to educate students about issues that will profoundly affect their lives, and their children's lives. They also help to engender an ethic of compassion and respect for both human and non-human beings, and help learners to develop interdisciplinary perspectives that they may find valuable throughout their careers.

Please continue to stay engaged in our organization's work, recruit colleagues and students to AESS, and submit your best work to the Journal of Environmental Studies and Sciences. On behalf of the AESS Board of Directors, welcome to the Big Apple. Enjoy the conference!

Wil BurnsAESS President

Site Coordinator



It is an honor to welcome AESS to Pace University – and New York City. Pace Academy for Applied Environmental Studies and the Pace Institute for Environmental and Regional Studies are proud to be the site team for this year's conference.

New York City is the perfect backdrop to contemplate the Anthropocene. Reminders of our shared past, connections to Earth, to each other, and our impacts, our innovation and potential will be omnipresent. Some reminders may be obvious and others might grab you subtly or in the most unexpected ways, times, and places. Nature, architecture, culture, politics, transportation, farming, justice, energy, history, art. It's all here. It's all around you.

Field trips will take you out into the city to explore a diversity of places - from the latest in engineering at Newtown Creek, to ancient human artifacts in the American Museum of Natural

History. Wish you had signed up for a trip? Visit the registration table in the Lobby and see which trips may still have some room for you. Welcome to Pace University, New York City, and AESS 2014!

Donna Kowal, Program Coordinator, Pace Academy for Applied Environmental Studies AESS Site Coordinator

Program Chair and Arts Director





The 2014 AESS conference promises to be the richest and most exciting vet. Over 80 panels and symposia feature groundbreaking research on socialecological systems, pedagogies for environmental education, and strategies for community engagement. The conference theme runs through many of the sessions, connecting discussions of water resources, urban ecology, food systems, conservation, energy, and waste management to the grand organizing concept of the Anthropocene. As always, our roundtables give you the chance for more informal discussion of the issues you care about, and we offer a variety of workshops ranging from career development to program development to classroom innovations. All of this, along with friendly colleagues and a welcoming atmosphere, is what you've come to

expect from AESS.

But what we're most excited about this year is the integration of the arts into our program. AESS has always recognized the important role of environmental arts in ESS. This year, we're experimenting with some new ways of integrating artists into the program. First, assisted by a group of volunteers, we put out a special call for interdisciplinary visual artists. You'll find the invited artists from that call on panels throughout the program, talking about their collaborations with environmental scientists and how the arts contribute to environmental studies and sciences. You can view some of their work in the exhibit hall. Next, we have an exhibit of the work of eco-artist Elizabeth Demaray in the gallery next to the Student Union (where the coffee breaks take place). She will discuss her work in her "walking symposium" on Thursday afternoon.

Finally, for the performing arts, Jennifer Joy put together a performance troupe that includes a dancer/choreographer, a slam poet, a sketch writer, and some actors. Together, they took a deep dive into the conference themes, reading abstracts and papers and contacting conference presenters. They then created a variety of short performances based on the research and thinking being presented at the conference. You'll see these performances at unexpected moments -- don't miss receptions, meals or breaks — and definitely don't miss the banquet!

Your program committee this year included Aileen Guzman, Mercedes Quesada-Embid, Jean Mangun, Devin Judge-Lord, Patrick Hurly, Mary Collins (with assists from Nancy Rich and Mike Finewood). The arts team was led by Jennifer Joy and included Molly Mehling, Elizabeth Demaray, and Pat Hackbarth. On their behalf, we welcome you to AESS 2014!

Kim Smith, Professor of Political Science and Environmental Studies, Carleton College AESS Program Chair

Jennifer Joy, Performer, Writer and Director AESS Arts Director

Sponsors and Acknowledgements

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KRIEGER SCHOOL of ARTS & SCIENCES ADVANCED ACADEMIC PROGRAMS



Middlebury

The 2014 AESS conference was made possible by the hard work of many staff and volunteers. Special thanks to:

Wil Burns, President, Washington Geoengineering Consortium, American University

John "Skip" Laitner, President Elect, American Council for an Energy-Efficient Economy

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Arts Programming generously supported by Kimberly Smith, Carleton College.

David Blockstein, Lyle Birkey, and NCSE for their support of AESS.

AESS Program Committee Members

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Mary B. Collins, Postdoctoral Fellow, National Socio-

Pace University Site Team

Donna Kowal, Site Coordinator Michelle Land Caroline Craig Robert Chapman

Catelin Blowers, Special Events Manager, and the entire Pace University Special Events and service teams, including Educational Media, Buildings and Grounds, Chartwells and Auxiliary Services.

All conference volunteers.

Conference Overview

🗘 - represents a performance time. See the front cover for exact times, locations, and names of each performance.

Wednesday, June 11						
9:00am - 12:00pm	Morning Workshops (AESS)	Various Rooms				
12:00pm	Lunch	Bianco Room (B Level East)				
2:00pm - 5:00pm	Afternoon Workshops (CEDD and AESS) 🕏	Various Rooms				
5:00pm - 6:30pm	Opening Reception 😂	Bianco Room & Courtyard (B Level East)				
6:30pm - 8:00pm	Welcome and Opening Keynote 🗘	Schimmel Theater (B Level East)				
Thursday, June 12						
7:30am	Breakfast Roundtable Discussions	Gymnasium (C Level West)				
9:00am - 10:30am	Plenary Panel 🔾	Gymnasium (C Level West)				
10:00am - 6:00pm	Exhibitors Open	Student Union (B Level West)				
10:30am	Coffee & Snack Break 🗘	Student Union (B Level West)				
11:00am - 12:30pm	Session A	Various Rooms				
12:30pm - 2:00pm	Lunch Roundtable Discussions 🗘	Gymnasium (C Level West)				
2:00pm - 3:30pm	Session B	Various Rooms				
3:30pm	Coffee & Snack Break	Student Union (B Level West)				
4:00pm - 5:30pm	Session C	Various Rooms				
5:45pm	AESS Reception & Business Meeting (all AESS members invited) ②	Gymnasium (C Level West)				
7:00pm	Film Night	Lecture Halls North & West (2 nd Fl.)				
7:00pm	Meeting of The Journal for Environmental Studies and Sciences Editorial Board	Off-campus				
Friday, June 13						
7:30am	Breakfast Roundtable Discussions	Bianco Room (B Level East)				
7:30am	JESS Meeting with AESS Board	Boardroom South (18th Fl.)				
9:00am - 10:30am	Session D and Presentations by Student Award Finalists	Various Rooms				
10:30am	Coffee & Snack Break 🛇	Student Union (B Level West)				
10:30am - 7:30pm	Exhibitors Open	Student Union (B Level West)				
11:00am-12:30pm	Session E	Various Rooms				
12:30pm - 5:30pm	Box Lunch & Field Trips (Field Trip Leader Meeting Place) ©	Student Union (B Level West)				
5:30pm - 7:30pm	Exhibitors	Student Union (B Level West)				
6:00pm - 7:30pm	Poster Session	Bianco Room (B Level East)				
7:30pm - 10:00pm	Banquet 🗘	Gymnasium (C Level West)				
Saturday, June 14						
7:30am	Breakfast	Bianco Room (B Level East)				
7:30am	AESS Council Meeting (Council Members only)	Boardroom South (18th Fl.)				
9:00am - 10:30am	Session F	Various Rooms				
10:30am	Coffee & Snack Break 🗘	Student Union (B Level West)				
11:00am - 12:30pm	Session G	Various Rooms				
12:30pm	Lunch & Closing Keynote Address	Bianco Room (B Level East)				
2:00pm	Adjourn					

Session Types

Note: Sessions are presentation panels unless otherwise indicated.

Workshops

Workshops are interactive (as opposed to lecture-based) and have a formal educational or professional development component. Content may include presentations, discussions, exercises, formal training, or other methods of promoting heuristic goals. Workshops are expected to have clear goals and outcomes.

Discussion Symposia

Discussion symposia are designed for focused discussion on a selected topic. Playing off the original ancient Greek symposia, the emphasis is on in-depth intellectual exchange. Opening remarks are appropriate but it is not expected that participants will deliver a formal presentation.

Presentation Panels

Presentation panels are designed for presentation of research or other scholarly AESS-related endeavors. In generation, they consist of four presenters who are each allotted approximately 20 minutes to speak, followed by questions and answers or discussion.

Mealtime Roundtables

Mealtime roundtables are designed to foster open discussion around a topic of general and collective interest to the AESS community. Anyone can join a roundtable. Roundtables are scheduled during mealtimes, either breakfast or lunch, at the designated conference dining location, where they will have a table set aside. They are led by the coordinator listed in the program book.

Sessions Overview

Thursday

	A (11:00am - 12:30pm)	B (2:00pm - 3:30pm)	C (4:00pm - 5:00pm)
1	The Montreal Protocol at a Crossroads: What Needs Urgent Attention Now and How That Is Connected to Climate Change? Room W-616	The Anthropocene and the Urban Challenge: Social-Ecological Research and Practice in New York City Room W-619	Critical Thinking in/for the Anthropocene: Perspectives from Traditional Ecological Knowledge, Feminist Studies, Environmental Justice and De-Colonial Theories Room W-510
2	Environmental Politics and Landscape Imaginaries in the Age of the Anthropocene <i>Room W-510</i>	Environmental Clinical Education: An Interdisciplinary Training Program for the Student Practitioner <i>Room W-510</i>	Welcome to the Anthropocene: Symposium with Featured Artist Elizabeth Demaray Room W-614
3	Synthetic Chemicals and Society: Research and Perspectives on Ethics and Environmental Health, Governance, and Education (Part I) Room W-511	Synthetic Chemicals and Society: Research and Perspectives on Ethics and Environmental Health, Governance, and Education (Part II) Room W-511	Urban Agriculture Room W-612
4	Teaching in the Anthropocene I Room W-610	North American Food Resilience: JESS Special Issue Preview (Part 1) Room W-624	Synthetic Chemicals and Society: Research and Perspectives on Ethics and Environmental Health, Governance, and Education (Part III) Room W-511
5	Artists of the Anthropocene: Regarding Life Aquatic Room W-612	Educating for Planetary Stewardship in the Anthropocene: Bringing Asia into the Environmental Classroom <i>Room W-610</i>	Water Resources Room W-626
6	Predators and Prey Room W-615	Governing Oceans Room W-612	Digging for the Anthropocene: Earth, Texts, Films Room W-617
7	Integrating Multifunctional Landscape Design into Agricultural Policy Room E-319	Design for Living: Considering Sustainability Pedagogy in Art and Design Education Room W-615	Developing the Sustainability Mindset in Action Room W-618
8	The Anthropocene I Room W-619	Conserving Animals Room W-618	Energy: Bringing the Gorilla into Environmental Studies and Sciences Room W-615
9	Storytelling in the Anthropocene: Picturing People and the Planet Room W-621	Architecture, Risk, and Opportunity in the Anthropocene <i>Room W-616</i>	Anthropocene II Room W-619
10	Environmental Policy Room W-620A	Teaching Strategies I Room E-319	Water Resources in the Anthropocene <i>Room W-621</i>
11	Teaching Care and Hope Room W-624	Watershed Management II Room W-626	Environmental Security Room W-622
12	Watershed Management I Room W626	Designing Multi-perspective Activities to Engage Non-majors in Environmental Science Room W-621	Environmental Health Room W-623
13	TOXIC RELEASE! An opportunity to play a unique eco-educational game sponsored by EPA's Toxics Release Inventory University Challenge. <i>Room W-618</i>		Teaching about Socio-environmental Synthesis with the Case Study Approach Room W-616

Saturday

	D (9:00am - 10:30am)	E (11:00am - 12:30pm)	F (9:00am - 10:30am)	G (11:00am - 12:30pm)
1	New York City Ecology Room W-504	Changing Climate Politics in the United States Room W-617	Artists of the Anthropocene: Awareness and Aesthetic Action <i>Room E-319</i>	Innovative Pedagogies for Environmental Justice and Community Engagement <i>Room W-618</i>
2	Environmental Chemistry Room W-519	Minority Youth-centered Environmental Education Activism in Rural Indian Country Room W-510	Using Place I: Technology, Nostalgia, Resiliency & Mobility <i>Room W-608</i>	Using Place II: Exclusion, Nature/Local, Pedagogy & Community Room W-610
3	Searching for Effective Curricula: Debating the National Council on Science and the Environment's 2013 Report on Curriculum Design Room W-520	Wilson's Bottleneck and Ex Situ Conservation Room W-511	North American Food Resilience: JESS Special Issue Preview (Part 3) Room W-519	Colleges and Sustainability Room W-626
4	North American Food Resilience: JESS Special Issue Preview (Part 2) Room W-521	Food Systems Room W-612	Planning and Documenting an Interdisciplinary Academic Career Room W-520	Into the Great Wide Open: Climate Geoengineering in the Anthropocene? Room W-511
5	Silo Busting for Dummies I: If We Can So Can You!! Room W-522	Silo Busting for Dummies II: If We Can So Can You!! Room W-624	Curricular Innovations in New York <i>Room W-521</i>	Anthropocene as Conjuncture: Philosophical Perspectives on the Emergence of an Epoch Room W-612
6	Anthropocenic Discards and the Hydrocarbon Economy I: Circulations of Commodities in Art, Economy and Culture <i>Room W-628</i>	Anthropocenic Discards and the Hydrocarbon Economy II: Material and Energy Transformations Room W-626	Environmental Stewardship in the Anthropocene: Pedagogy for Educating to Care Room W-522	Activists, Agencies, and Corporate Environmental Practices in the Anthropocene Room W-615
7	Interdisciplinary Approaches in Urban Stormwater Management Room W-523	Integrating Teaching and Research at the US Coast Guard Academy: Preparing Future Officers for a Changing Climate Room W-615	Cultivating Engagement Room W-523	Teaching Strategies II Room W-619
8	Energy Policy I Room W-608	Sustainable Business and Policy Reform: Limits and Possibilities <i>Room W-616</i>	Fate of Salamanders in the Anthropocene <i>Room W-601</i>	Environment and Justice Room W-616
9	Blood & Coral Room W-602	Hispanics, Latinos and the Environment Video Conference E-319	Climate Strategies Room W-602	Environmental Humanities Room W-510
10	Student Awards Panel Room W-604	Trust and Natural Resource Management Room W-619	Planning I Room W-623	Planning II Room W-624
11	Sustainable Development Room W-605	Environmental Values in Action Room W-618	Politics of Fossil Fuels Room W-605	Climate Change Around the World Room W-617
12	Power, Vulnerability, Responsibility Room Y-22 (2 nd Fl.)	Energy Policy II Room W-610	Community Forest Governance in a Globalizing World: Opportunities and Challenges in Rural Africa Room W-604	Students Doing Development Room W-621
13	Art's Critical Role in Linking Climate Science with Global Engagement <i>Video Conference E-319</i>	Collaboration in Teaching the Anthropocene Across Disciplines Room W-621		

AESS Lifetime Achievement Award

AESS is honored to present the 2014 William R. Freudenburg Lifetime Achievement Award Professor Susan G. Clark Joseph F. Cullman 3rd Adjunct Professor of Wildlife Ecology and Policy Sciences Yale School of Forestry and Environmental Studies

The Lifetime Achievement Award seeks to recognize and advance the spirit of AESS co-founder, the late Professor William R. Freudenburg, whose seminal work in risk perception, social disruption and the causes of environmental degradation helped to shape our contemporary discipline. Through his mentorship, Professor Freudenberg also spawned a new generation of environmental professionals who have pursued interdisciplinary research to address some of the most pressing issues of our time. Through this award, AESS honors members of the profession who have also devoted their lives to strengthening our field and fostering outreach to critical decision makers and the public.



Susan Clark has had a profound impact on the field of environmental studies and sciences through teaching, applied conservation, and scholarship – each of which she has conducted with great aplomb. She has selflessly dedicated her career to integrating knowledge from many fields of science and policy toward environmental problem solving. Her efforts have inspired and influenced the careers of several generations of environmental professionals, had substantial direct impact on the conservation of several high-profile species and ecosystems (including the eastern barred bandicoot and koala in Australia, the black-footed ferret and several species of large carnivores in the American West, and the entirety of the Greater Yellowstone Ecosystem), and resulted in the promotion of knowledge and experience through her many books and hundreds of articles.

Her greatest influence has been on generations of graduate students and professionals during her nearly 40 years as a teacher and mentor, and especially during more than two decades spent at Yale University, where she remains a leader among a world-class interdisciplinary faculty. Dr. Clark has won many awards in recognition of her pedagogy and mentoring, including multiple teaching and advising awards at Yale, a Mentoring Award from the Society for the Policy Sciences, and an Outstanding Contribution Award from the U.S. Fish and Wildlife Service for her dedication to conservation education. In further recognition of her value to Yale she was appointed in 2005 as the Joseph F. Cullman 3rd Chair and Professor (Adjunct) of Wildlife Ecology and Policy.

She has also worked for nearly four decades on the frontlines of conservation in the Rocky Mountains and around the world. In the U.S., Dr. Clark was director of the Yellowstone Institute, the educational arm of Yellowstone National Park, and was also the founder and first president the Northern Rockies Conservation Cooperative, a thriving organization designed to provide interdisciplinary advice to the agencies and organizations responsible for conservation in the Yellowstone region. She has been a member of three IUCN Species Survival Commissions (for mustelids, reintroductions, and monotremes, respectively) and the Polar Bear Conservation Committee of Alberta, Canada, and has served on the U.S. Black-footed Ferret Recovery Team. For her tireless work in endangered species science and policy, she has received a Presidential Award from the Chicago Zoological Foundation and a special recognition by the Minister for Conservation and Land Management of Victoria, Australia. She has served on numerous boards of directors and scientific advisory committees, including the AESS governing board.

In her scholarship Dr. Clark has produced countless cases and advanced the development of conservation problem solving theory in nearly 300 papers and monographs and several influential books. Her most notable contribution to environmental and conservation theory is her book The Policy Process, a 2002 primer on conservation policy used widely in graduate and undergraduate courses in the U.S., Canada, Australia, and elsewhere. Her several recent books have helped to promote greater understanding of the complexity of conservation in the Greater Yellowstone Ecosystem, the region with which she is most closely associated.

Keynote Speaker Biographies



Andrew C. Revkin

Senior Fellow for **Environmental Understanding** Pace Academy for Applied **Environmental Studies** Pace University Dot Earth Blogger The New York Times arevkin@pace.edu

Andrew Revkin is Senior Fellow for Environmental Understanding at the Pace Academy for Applied Environmental Studies. He is also the creator and writer of the Dot Earth blog for the Opinion section of the New York Times, where he covered the environment as a staff writer from 1995 through 2009. At Pace University, Revkin teaches courses on blogging, environmentalscience communication and documentary video with a focus on sustainable development. As a pioneer in multimedia communication, Revkin speaks to varied audiences around the world about the power of the Web to foster progress on a finite planet. A prize-winning journalist, online communicator and author, he has spent 30 years covering subjects ranging from the assault on the Amazon to the Asian tsunami, from the troubled relationship of science and politics to climate change at the North Pole.

Revkin has a biology degree from Brown and a Master's degree in journalism from Columbia. He has taught at Columbia's Graduate School of Journalism and the Bard College Center for Environmental Policy. Follow him @revkin on Twitter or Google+, subscribe to his Facebook feed, and take a listen to his CD, "A Very Fine

pace.edu/academy and nytimes.com/revkin



Karl R. Rábago

Executive Director Pace Energy and Climate Center Pace Law School krabago@law.pace.edu

Karl R. Rábago is the Executive Director of the Pace Energy and Climate Center, at the Pace Law School in White Plains, New York. The PECC mission is to protect the earth's environment through solutions that transform the ways that society supplies and consumes energy. Karl has some 25 years experience in energy and climate policy markets. Karl serves as Chair of the Board of the Center for Resource Solutions, a San Franciscobased non-governmental organization that works to advance voluntary clean energy markets. He also sits on the Board of the Interstate Renewable Energy Council (IREC).

Karl recently ran his own successful consulting practice, Rábago Energy LLC. His past positions include Commissioner, Texas Public Utility Commission; Deputy Assistant Secretary at the US Department of Energy; Vice President of Distributed Energy Services at Austin Energy; Director of Regulatory Affairs for the AES Corporation and AES Wind; and Managing Director & Principal of the Rocky Mountain Institute. A graduate of Texas A&M University with a Bachelor of Business Administration degree in Business Management, Karl is an attorney (University of Texas Law School, J.D. with Honors) with post-doctorate degrees in environmental (LL.M., Pace University School of Law) and military law (LL.M., US Army Judge Advocate General's School). A veteran of more than 12 years in the US Army, he served as an Armored Cavalry officer and member of the Judge Advocate General's Corps, and is Airborne and Ranger qualified.

energy.pace.edu

Featured Visual Artist & Gallery Hours: Elizabeth Demaray

"Welcome to the Anthropocene" works by Featured Artist Elizabeth Demaray



Peter Fingesten Gallery 1 Pace Plaza, B Level West New York, NY

June 11-14, 2014

Curated by Jennifer Joy

Gallery Hours

Wednesday, 12:00pm - 6:00pm Thursday, 10:00am - 6:30pm [Reception at 5:30pm] Friday, 10:00am - 1:00pm and 5:00pm - 7:00pm Saturday, 10:00am - 12:00pm

In selecting Elizabeth Demaray as the 2014 AESS conference's featured artist, we would like to recognize her work in directly addressing Anthropocene issues for the past decade. We are honored to dedicate a symposium and a solo exhibition, in the Peter Fingesten Gallery at Pace University, to her artistic output.

Demaray addresses the relationship of the built environment to the natural world via eco-art and art and science collaboration. She builds listening stations for birds that play human music, cultures lichen on the sides of skyscrapers in New York City, and designs alternative forms of housing for hermit crabs out of man-made materials. Writing about her work, Richard Klein, Exhibition Director at the Aldrich Museum, states: "Demaray provokes complex questions concerning memory, knowledge, and the collaborative cognitive process that exists between artist and viewer ... while making a body of work that has consistently confounded expectations by creating connections between diverse and often contradictory bodies of knowledge."

Her current artwork, The IndaPlant Project: An Act Of Trans-Species Giving—a collaboration with the engineer Dr. Qingze Zou—is designed to facilitate the free movement and metabolic function of ordinary houseplants. The collaborators have successfully created a floraborg, a term Demaray coined to describe an entity that is part plant and part robot. This work has recently led to the creation of a floraborg biocyber interface. Addressing the super sensory capacities of plants, this interface allows humans to decipher plant-based information on ecosystem health, the effects of climate change and air pollution. In this capacity, the IndaPlant may allow us to model and support environments that are able to sustain humans and plants alike.

The current IndaPlant community consists of three data-sharing, light-sensing, robotic vehicles, each of which can respond to the needs of a potted plant by moving it around in three-dimensional space in search of sunlight and water. The artist states, "My primary interest in creating this art piece lies in the poetic implications of turning an immobile houseplant which is completely dependent upon human largesse and care—into a free agent." During the 2014 AESS Conference, the IndaPlants can be seen, via a live-feed, in the gallery from 10:00 A.M., to noon. Conference attendees are invited to come watch the beginning of the floraborgs' morning routine as the IndaPlants jostle with one another to exit Dr. Zou's office in search of sunlight in the adjacent hallways.

Demaray is the recipient of the National Studio Award at the New York Museum of Modern Art/P.S.1 Contemporary Art Center, the New York Foundation for the Arts Fellowship in Sculpture, the California Artist in Residency Award at the Headlands Center for the Arts, the Art Omi Residency, and the Aldrich Museum of Contemporary Art Emerging Artist Award. Her work has been exhibited at the MOMA/P.S.1 Contemporary Art Center and the New Museum, New York City; DADAPost, Berlin; the Lloyd Digital Lab, Amsterdam; the Centre d'Art, Marnay-sur-Seine; the M.H. deYoung Memorial Museum, San Francisco; the Pennsylvania Academy of Fine Arts, Philadelphia; the University Art Museum, Berkeley; Arthouse, Austin; and Consolidated Works, Seattle. She is an associate professor of fine art, head of the sculpture concentration at Rutgers University, Camden, and a senior work group advisor in the department of Electrical Engineering at Rutgers, New Brunswick. Her artwork can be viewed at elizabethdemaray.com and her current projects can be seen at elizbethdemarav.org.

Panel and Student Visual Art

Panel Artist Exhibition

Iune 12-13, 2014 Student Union (B Level West)

AESS took an unusual step for a scientific organization. It placed a formal call for panel presentations from artists who make work that fosters cross-disciplinary conversations about environmental issues.

The nine artists chosen to speak on the panels are listed below. They were selected for the quality of their art making and for the relevance of their work to the theme of this year's conference. They will describe how they engage with environmental science and scientists and how their work contributes to the research and pedagogical goals of the environmental studies community at panels including The Anthropocene I; The Anthropocene and the Limits of Knowledge; Governing Oceans; Power, vulnerability, responsibility; Energy policy; Ecosystem Restoration; Urban agriculture I; Environmental Humanities; and New York City Ecology.



Artist and biologist, Brandon Ballengée creates transdisciplinary artworks inspired from his ecological field and laboratory research. Since 1996, a central investigation focus has been the occurrence of developmental deformities and population declines among amphibians. In 2001, he was nominated for membership into Sigma XI, the Scientific Research Society. In 2009, Ballengée and SK Sessions published "Explanation for Missing Limbs in Deformed Amphibians" in the Journal of Experimental Zoology and received international media attention from the BBC and others. This scientific study was the inspiration for the book Malamp: The Occurrence of Deformities in Amphibians (published by Arts Catalyst & Yorkshire Sculpture Park, England) and a 2010 solo exhibition at the Royal Institution of Great Brittain (London, England). Since 2009 he has continued his amphibian research as a visiting scientist at McGill University (Montréal, Canada). In 2011 he was awarded a conservation leadership fellowship from the National Audubon Society's TogetherGreen Program (USA). Ballengée's art has been exhibited throughout the USA and internationally in 18 countries. In 2013 a retrospective of his artworks debuted at the Château de Charamarande (Essonne, France) and travelled to the Museum Het Domein (Sittard, Netherlands) in 2014. Ballengée holds a transdisciplinary Ph.D. in art and science from University of Plymouth (England).



Since 2000, Mark Lee Koven has shown in over 90 exhibitions and art venues such as FlashArt Milan, StoreFront for Art and Architecture New York, Art Basel Miami, Southern Exposure San Francisco, Taipei Taiwan and Scope London. Earning a Masters of Fine Arts from the University of Miami in 2005, Mark Lee Koven has worked as an interdisciplinary artist whose research merges materials and processes of art with those of science. Mr. Koven's work is also included in various public and private collections including the Perez Art Museum, the Frost Art Museum and the Museum of Contemporary Art. In addition to being the recipient of both a Florida State individual artist fellowship and North Carolina individual artists fellowship, he has received two National Scholastics Art & Writing Teacher Awards, along with various national and regional awards for his research. Utilizing a wide range of mediums including bioluminescent fungi, wind turbines and reactive computer interfaced installations, his subjects of research have comprised: anthropological behaviors, data collection/visualization and renewable energy sources. Mark Lee Koven is currently an Assistant Professor and the Foundations program coordinator in the Department of Art and Design at Utah State University.



Ellie Irons is an interdisciplinary artist and educator based in Brooklyn, NY. Her work explores the interplay of humanity and ecology through drawings, environmental sculpture and new media. She has done workshops and exhibitions for her Invasive Pigments project at Wave Hill, The Bronx Museum's AIM Biennial, the Queens Botanical Garden and Trade School, NYC. Recently she has been an artist in residence at the Institute for Electronic Arts at Alfred University and the SVA Nature and Tech Lab. This summer she will be running an Invasive Pigments garden at the Center for Strategic Art and Agriculture at Silent Barn in Bushwick and presenting a solo project at Flora Arts and Nature in Bogotá, Columbia. Irons teaches part time at the City College of New York and the Guggenheim Museum and is a member of the collaborative group Future Archaeology. She studied Environmental Science and Art at Scripps College in California and received her MFA from Hunter College in 2009.



Eve Andrée Laramée is Professor and Chair of the Department of Art at Pace University. Born in Los Angeles, Laramee now lives in Brooklyn, NY, and Santa Fe, NM. Her art has been exhibited throughout the United States, Europe, Asia and the Middle East. Exhibitions include the Venice Biennale, Mass MOCA, Massachusetts Institute of Technology, Museum of Contemporary Art, Chicago; New Museum of Contemporary Art, New York; among others. Collections include the MacArthur Foundation, Museum of Modern Art, New York, Museum of Contemporary Art, Chicago, The Fogg Art Museum of Harvard University, Massachusetts Institute of Technology, and others. Laramee has received two grants from the Pollock-Krasner Foundation, two fellowships from the New York Foundation for Arts and grants from the Mid-Atlantic States Arts Foundation, National Endowment for the Arts, Andy Warhol Foundation Grant, Guggenheim Museum Sculptor-in-Residence Program. She is the founder and director of ART/MEDIA for a Nuclear Free Future.



Lenore Malen is an artist and writer who uses the lens of history to explore utopian longings and the sciences that inform them. Working across diverse media she has explored such subjects as Mesmerism, the social structure of ideal and imaginary communities, and recently she re-imagined human culture as a beehive in a three-channel video installation and documentary film. Her new installation and performance restages a medieval picture of Eden as a cautionary tale made newly relevant by the ticking clock of climate change. She has exhibited and performed in New York at Apex Art, Participant Inc., Location One, Art in General, Skidmore College, The Cue Art Foundation, Wave Hill, and The Slought Foundation, Tufts University, Wesleyan University, The Mediations Biennale, Poznan, Poland. In 2009 she received a NYFA Grant in Interdisciplinary Art and a Guggenheim Fellowship. She teaches in the MFA Fine Arts Program at Parsons.



Courtney Mattison is an artist and ocean advocate working to inspire policy makers and the public to conserve our changing seas. She completed an interdisciplinary BA in sculpture and marine ecology at Skidmore College with coursework at James Cook University in Australia. Mattison then spent a year as a fellow at the Harvard Ceramics Program before completing an MA in Environmental Studies at Brown University, where she worked between Brown and RISD to create a large-scale ceramic coral reef sculptural installation titled "Our Changing Seas: A coral reef story." This piece debuted at the U.S. Department of Commerce and is currently on loan at the American Association for the Advancement of Science in Washington, DC. Mattison has since created "Our Changing Seas II" for the Nova Southeastern University Oceanographic Center and "Our Changing Seas III," which is at the Tang Museum in Saratoga Springs through June 15. courtneymattison.com



Jeanine McCain is an Assistant Professor of Dance at Ursinus College in southeastern Pennsylvania. She holds an MFA in Dance Performance and Choreography from the University of Colorado-Boulder and a BA in Dance and Theatre from the University of Montana. Her current work experiments with improvisation and cross-disciplinary research to develop creative process for live performance making. McCain recently performed her newest solo, Things Left Behind, at the Inhale Performance Series in Philadelphia and at the ACDFA Northeast Regional Conference at SUNY Brockport. At the AESS conference McCain will be discussing her most recent work with students, which was a collaborative effort with colleagues in Environmental Studies and Music, focusing on the transformational process of urban reclamation projects in the city of Philadelphia.



Mary Miss has reshaped the boundaries between sculpture, architecture, landscape design and installation art by articulating a vision of the public sphere where it is possible for an artist to address the issues of our time. Social, cultural and environmental sustainability are the focus of installations that allow the visitor to become aware of history, ecology or aspects of the site that have gone unnoticed. Miss is currently developing a project to transform Broadway into the new 'green' corridor of New York City. Recently she completed a project in Indianapolis, FLOW (Can you see the River?), focusing on a 6-mile stretch of the White River. She is part of a team working on a National Science Foundation project that expands on FLOW to activate six sites in neighborhoods on tributaries of the White River.



Jeni Wightman is a Cornell University Research Associate specializing in greenhouse gas inventories and life cycle analysis of agronomic systems. With a background in cell biology from Carnegie Mellon and MS in environmental toxicology from Cornell, her art practice began in 2002 and employs scientific tropes to incite curiosity of ecological phenomena. Jenifer's art poetically articulates the incongruities between our current economic growth paradigm (conceptually unlimited) and our emerging notion of sustainability (limited by finite resources). She is interested in forming an ecological rationality by reflecting on the co-evolution of a culture and its supporting ecosystem.

Student Art Slideshow

June 12-13, 2014 Student Union (B Level West)

Slideshow of works from Pace University under the direction of Linda Gottesfeld and Jillian McDonald, and works from Rutgers University under the direction of Elizabeth Demaray.

Students from a Painting I class, Digital Design class and a Learning Community course that paired Painting I with Digital Design created artworks in response to the Anthropocene. These are student examples are from the courses of Professor Linda Gottesfeld and Professor Iillian McDonald in the Art Department at Pace University.

Students from Art and Urban Sustainability created proposals and works and works of art that can and are being realized in Camden, New Jersey. Kristie Anthony, Aisha Dorley, Jennifer Freire, Danielle Hom, Jade Hunsberger, Jennifer Jakimiak, Kimberly Jimenez, Emily Perry, Victoria Widener, Marcquis Wilson present work under the direction of Elizabeth Demaray at Rutgers University.

Art Installation

June 11-14, 2014 Aniello Bianco Room (B Level East)

Linda Gottesfeld's oil on scrap metal painting series, *Traffic*, present immersive movements of action, conversations at high speeds and in complicated nets of communication. They address places from the past with current images; media, medium, and memory are warped in reused fragments. Traffic embodies the sense of past as present, the surface emerges with this convergence of site and time.

The landscape painting 'Return, England' merges a bucolic image onto detritus, an oil painting on warped and punctured

The resulting play of these pieces renews life back to the cast-away remains.

Linda Gottesfeld is a Professor of Art at Pace University. She is represented by Opus Projects in New York City (Traffic, solo exhibit 2013) and Ellen Miller Gallery in Boston (Pearlbrook Drive, solo exhibit 2012, reviewed in The Boston Globe). Gottesfeld exhibits and lectures nationally and internationally; group exhibits include Valentine in Brooklyn, The Catskill Art Center, Phillips Auction House, The Drawing Center, The Longwood Art Center, The College of New Rochelle, Art in General, The Painting Center, Henry Street Settlement, The Morris Museum, Seton Hall University, Sonoma State University, and The Berkeley Art Museum. She has been awarded residencies at Yaddo, Virginia Center for Creative Arts, The Millay Colony, and The Ucross Foundation.

Performance Troupe - The SciArt6

Artistic Director's Statement

I believe that science in performance can and should have all the same artistic values that non-science performance can offer. That is, it should delight, entertain and enlighten. Adding science to the mix has the potential to heighten these qualities, but only if the art does not become finger-wagging or overly didactic. When it comes to environmental science, performance must be so much more than that. To be effective, to help catalyze change, art must get under the skin. It takes craft and care to achieve this. Artistic standards must be very high indeed.

I'm grateful to have found such a talented and smart group of people who share these values. Each person in The SciArt6 troupe brings considerable performance and creative experience, and each company member has their own unique gifts. They all jumped into the process and let their talents shine.

The process we used is one I've developed over the past decade of working with science in the theatre. First we dove into the science itself, reading abstracts and papers, doing further research online, and emailing researchers with questions. Then, with that foundation of solid scientific information, we started doing what performing artists and writers do when they are creating something new: we got playful. We played improv games and did creative exercises. We searched for the best form for the work - a puppet show? A dance? A sketch comedy piece? You'll see all of this and more during the conference.

I want to thank AESS for once again embracing my creative ideas and direction for the arts at AESS. I'd like to thank Wil Burns for his backing. Gratitude and much appreciation go to Kim Smith, who has been supportive and incredibly generous in so many ways, for a few years now. Thanks also go to Donna Kowal, on Pace's site team, who been amazingly organized, helpful and supportive of the arts at this year's conference. I hope that they, and you, as AESS members, are as proud as I am with the results of your investment in the arts.

Iennifer Iov



PS. Many of you already know that I tour my solo show, (which uses the scientific history of the universe) to colleges and universities. If you're interested in that show, and/or in bringing The SciArt6 to your campus, please talk to me!

The SciArt 6 Biographies



Jennifer Joy, Artistic Director, is a NYC-based performer, writer and director with a passion for environmentalism and science. Her solo show, The Physics of Love, weaves the deeply ecological Universe Story into one woman's comic search for love. She has performed at theatres and colleges across the country, including Highways (Santa Monica); Emerging Artists' Theatre, Laurie Beechman Theatre, and Fresh Fruit Festival (NYC); Jon Sims Center, The Marsh, Josie's Cabaret and Red Dora's Café (San Francisco); University of Redlands, Scripps College, SUNY Potsdam, Rochester Institute of Technology, University of Connecticut, Alfred College and more. She has performed standup comedy at New York Comedy Club, Broadway Comedy Club, Ochi's at Comix and more. Her training work includes improv workshops that teach communication and creativity skills to scientists and others, and workshops in which participants use science to create art. She is available for residencies, shows and workshops. To book a show and/or workshop, contact her at jjoy@jenniferjoyonline.com.



Sergio Castillo - Film: Hole In The Wall (Spaha Pictures); Lonely Ciphers (Working Class Films); Never Worn (Working Class Films); Coda For A Dream (Praxis Culture Films); Bits & Pieces (New School); Ali (NYU); Perfect Life, Inc. Television: Why Am I Still Single? (VH1); Redrum (Investigation Discovery); Scorned: Love Kills (Investigation Discovery). NYC Theatre: Audience Participation (Manhattan Repertory Theatre Festival Winner); The Prenup (Strawberry Festival Finalist); The Councilwoman (West Village Musical Theatre Festival); Plutus (Curious Frog Theatre Company); The Taming of the Shrew (Queens Players); The Bald Soprano (Dance New Amsterdam); Hello Out There (Dance New Studio Drama School; Pace University & BA: UCLA. Amsterdam). MFA: Actors www.sergiocastillo.weeblv.com



Jessica Cermak is a Brooklyn based actor and teaching artist. She graduated from Wayne State University in Detroit with a BFA in theatre. Since moving to New York she has studied at Circle in the Square Theatre school and appeared in many Off-Off Broadway plays including Three Sisters, A Doll House, and Taming of the Shrew. She is a member of WOW Cafe Theatre collective, and is always seeking opportunities to make work in a collaborative setting.



Michael Coyne is an actor/professional satirist born and raised in in Jackson Heights, NY. He studied theatre at LIU Post and since has done several productions. You can catch him doing sketch comedy with Improvisation News every Saturday at The Triple Crown (330 7th Ave).



Benumerata Muhammad has been an actor, performance artist, poet, writer, MC, beatbox, and voice actor for as long as he can remember. He comes from a family of educators, so most of his acting career has been as an actor/teacher, especially in the realm of instructing kids to create their own artistic works to perform. He is currently working his one man show "From Under the Rug", about Post Traumatic Slave Syndrome, and his two man show "We Aint From Around Here", an entertaining piece where Shakespeare meets Hip Hop.



Amanda Gloria Valdes is the renaissance women of this era. Amanda Gloria Valdes is an actress/dancer/singer/yogi. Amanda grew up in Edison, New Jersey. Amanda studied Theater at Rutgers University where she obtained a B.A in Theater. After her completion of her studies Amanda moved to New York City and became a company member of NiteStar Theater Company affiliated with St. Luke's Hospital where they use theater to create awareness and educate about HIV/AIDS, STD's, and gender issues/awareness. Amanda was really empowered by the experience and was fortunate to perform with NiteStar Theater Company at United Nations as well as Off-Broadway. Amanda continued her studies after the show run at William Esper Studio in Acting and also obtained her Yoga Teaching Certification at Yoga Vida NYC .When Amanda is not performing she is a teaching artist for Creative Arts Team at CUNY. Most recently Amanda has been featured in film and television in an upcoming "Finally Famous" Feature film with Chris Rock, White Collar, Law and Order: SVU, 666 Park, and The Newsroom. Amanda really believes in the importance to create the human revolution encouraging happiness by uniting all with the arts. As Amanda says "Create, breathe, and fly!"

The SciArt6 Credits

Wednesday, June 11th

2:00 pm Workshop: Improv/Communication Workshop

Led by: Jennifer Joy

Opening Reception: Mannahatta—Manhattan Jennifer Joy - Writer, overall design and direction

Amanda Valdes - choreographer

Company - performers

Music - Fish Wrap by Bernie Krause, with animal sounds added from The Sound Bible and The Macaulay Library at the Cornell Lab of Ornithology; Ares by Bloc Party; Empire State of Mind (Live at the Hurricane Sandy Benefit at Madison Square Garden), by Alicia Keys

6:30 pm Empire State of Mind Part II - Ecology State of Mind

Writer: Benumerata Muhammad

Performers: Benumerata Muhammad and Amanda Valdes

Music: Empire State of Mind, Alicia Keys

Thursday, June 12th

9:00 am: Harper - from Angels in America

Performer: Jennifer Joy

From Angels in America by Tony Kushner

10:30 am Puppet Show: Fanny the Farmer Meets a Troll

Writer/Director/Storyteller: Jessica Cermak

Props: Jessica Cermak Performers: Company

12:30 pm Leveraged Synergies Press Conference

Writer: Michael Coyne Director: Jennifer Joy Performers: Company Costume: Michael Coyne

3:30 pm Puppet Show: Fanny and Daisy Learn Urban Farming

Writer/Director/Storyteller: Jessica Cermak

Props: Jessica Cermak Performers: Company

5:45 pm Zero Waste Policy Games

Company

Tyrone Hayes Breaks it Down for You

Performer: Benumerata Muhammad as Tyrone Hayes

Transcript of Tyrone Hayes' rhymes

Friday, June 13th

10:30 am Wasted on Waste, Part 1 Direction: Jennifer Joy & Sergio Castillo

Performers: Jessica Cermak, Michael Coyne and Amanda

Valdes

Music: I Love It by Icona Pop

Costumes: Amanda Valdes, Jessica Cermak

12:30 pm: Leveraged Synergies Encounter

Writer: Michael Coyne Director: Jennifer Joy

Performers: Sergio Castillo and Michael Coyne

7:30 pm Scenes from the Anthropocene

How Do People Change? Writer/Performer: Jennifer Joy

Wasted on Waste, Part 1

Direction: Jennifer Joy & Sergio Castillo

Performers: Jessica Cermak, Michael Coyne and Amanda

Music: I Love It by Icona Pop

Costumes: Amanda Valdes, Jessica Cermak

Oxygen Deniers

Writer: Michael Coyne

Performers: Amanda Valdes, Michael Coyne

Director: Jennifer Joy

Beaver Love

Writer: Sergio Castillo

Performers: Jessica Cermak, Sergio Castillo

Director: Jennifer Joy

Music: Makin' Whoopee - Michelle Pfeiffer, (vocal); by Walter

Donaldson and Gus Kahn

Fanny and Daisy Learn Urban Farming Writer/Director/Storyteller: Jessica Cermak

Props: Jessica Cermak Performers: Company

Healing the Earth

Choreographer: Amanda Valdes

Performers: Amanda Valdes, Sergio Castillo, Benumerata

Muhammad

Director: Jennifer Joy

Costumes: Amanda Valdes, Benumerata Muhammad Music: Cree Prophecy by Fernando S. Gallegos

Life's Tragedies and Hopes Writer: Jennifer Joy

Choreographer: Amanda Valdes

Performers: Company

Prior, from Angels in America Writer: Tony Kushner Performer: Sergio Castillo

Litany of Hope Writers: Company Performers: Company

Empire State of Mind Part II—Ecology State of Mind

Writer: Benumerata Muhammad

Performers: Benumerata Muhammad and Amanda Valdes

Music: Empire State of Mind, Alicia Keys

Saturday, June 14th

10:30 am Interactive Performance: Zero Waste Policy Games

Company

Wednesday, 11 June

Morning Workshops (AESS) 9:00am - 12:00pm

W-1 Multi-Level Assessment of Community **Engagement Learning Experiences: Connecting Courses to Community** Room W-617

Facilitators

- Jennifer Fager, University of Wisconsin-Eau Claire, fagerjj@uwec.edu
- Cheryl Contant, Northland College, ckcontant@gmail.com
- Karen Mumford, University of Wisconsin-Eau Claire, mumforkg@uwec.edu

About the Facilitators

- Jennifer Fager
 - Dr. Jennifer Fager, Director of Assessment at the University of Wisconsin-Eau Claire, Eau Claire, WI. Dr. Fager is a recognized expert on assessment in higher education, peer reviewer and team chair for accreditation visits for the Higher Learning Commission, and is often invited to consult with higher education institutions on the application of assessment systems to improve learning. Dr. Fager will serve as the lead facilitator in the workshop.
- Cheryl Contant
 - Dr. Cheryl Contant, Vice President of Academic Affairs, Northland College, Ashland, WI. Dr. Contant is an experienced site visitor and former board member involved in specialized accreditation. Dr. Contant has been actively engaged in the development of institutional student learning outcomes and mapping them to programs and courses. She has served in numerous academic and administrative roles, including with the Office of Public Engagement at the University of Minnesota. Dr. Contant will serve as co-facilitator of the workshop.
- Karen Mumford

Dr. Karen Mumford, Assistant Professor, Watershed Institute, University of Wisconsin-Eau Claire, Eau Claire, WI. Dr. Mumford teaches environmental studies courses that employ community engagement practices. As co-Facilitator of this workshop, Dr. Mumford will provide case studies and examples of community engagement-focused courses to which multi-level assessment processes will be applied. Dr. Mumford is the organizer of this workshop.

W-2 Changing the Odds: Applied Trigger Point Theory, a Transdisciplinary Methodology for **Anthropocene Complexity** Room W-621

Facilitator

Aviva Rahmani, University of Plymouth, ghostnets@ghostnets.com

W-3 Using Interactive Exercises from "The Work that Reconnects" to Confront Despair and Activate Hope Room W-622

Facilitator

Mark Hathaway, Ontario Institute for Studies in Education and University of Toronto. mark.hathaway@utoronto.ca

About the Facilitator

Mark Hathaway

Together with Leonardo Boff, Mark Hathaway is the author of The Tao of Liberation: Exploring the Ecology of Transformation, published by Orbis Books in 2009. He is currently a PhD candidate at the Ontario Institute for Studies in Education and the School of the Environment at the University of Toronto where his teaching, research, and writing focus on transformative adult learning and ecological worldviews education. In the course of his research. Mark been trained by Joanna Macy in her "Work that Reconnects" and has since applied this to you since I his teaching of undergraduate students.

W-4 Getting Published: Preparing Manuscripts for Iournal Submission Room W-624

Facilitators

- Tony Rosenbaum, EIC of JESS, tonyros@ufl.edu
- Kim Smith, Carleton College, ksmith@carleton.edu
- Bob Turner, Colgate University, rturner@colgate.edu

W-5 Exploring the Silence: Using Contemplative **Practice to Revitalize Environmental Studies** Teaching and Research in the Anthropocene Room W-626

Facilitators

- Elizabeth Allison, California Institute of Integral Studies, eallison@ciis.edu
- Rebecca Gould, Middlebury College, rgould@middlebury.edu

About the Facilitators

• The presenters are members of a core group of faculty from across the United States who have explored and developed "contemplative environmental studies" as a central pursuit. With original funding from the Fetzer Institute and further support from the Esalen Institute's Center for Theory and Research, this group has developed and tested practices that have enlivened undergraduate and graduate courses across the disciplines of Education Studies, Philosophy, Religious Studies, Psychology and Political Science all serving the Environmental Studies programs in which we participate.

Lunch 12:00pm Bianco Room (B Level East)

The SciArt6: Improv/Communication
Workshop ❖
2:00pm
Schimmel Lobby

Afternoon Workshops (CEDD and AESS) 2:00pm – 5:00pm

W-6 Partners in the Great Work A Programmatic Model for Teaching Thomas Berry's Wisdom Regarding the Challenges of the Anthropocene Room W-510

Facilitators

- Brian Brown, Iona College, bbrown@iona.edu
- Kevin Cawley, Iona College
- Kathleen Deignan, Iona College, kpdeignan@aol.com
- Daniel Martin, Iona College, danann0305@gmail.com

About the Facilitators

Brian Brown

Dr. Brian Brown earned his JD in Law from New York University, and his PhD in the History of Religions from Fordham University, mentored by Thomas Berry. He is currently Full Professor of Religious Studies at Iona College specializing in the History of Religions. As an Historian of Religion, he remains deeply interested in interreligious dialogue particularly between the Buddhist and Christian traditions.

• Kevin Cawley

Dr. Kevin Cawley, CFC, Ph.D., is Executive
Director of the Thomas Berry Forum for Ecological
Dialogue at Iona College, and publishes a monthly
newsletter on environmental concerns, *The Carbon*Ranger Newsletter/Ecozoic Times, which has a
global readership in 25 countries. He maintains an
Earth Care website at:
http://edmundriceinternational.org/jpic/
Dr. Cawley serves at United Nations Headquarters
in New York as the Main Representative of Edmund
Rice International (ERI), a non-governmental
organization in affiliation with the Economic and
Social Council of the UN and working in 30
countries on behalf of young people and Care of the
Earth.

• Kathleen Deigan

Dr. Kathleen Deignan received her Master's degree in Spirituality Studies and her doctorate in Historical Theology from Fordham University in New York, where she studied with her mentor, the late geologian, Father Thomas Berry. After his death, she and The Conveners founded The Thomas Berry Forum for Ecological Dialogue at Iona, where she is Professor of Religious Studies. Dr. Deignan sits on the Board of The American Teilhard Association and is a GreenFaith Fellow having completed a two-year post-doctoral training for religious environmental leadership in 2008. She is a member of the faculty for the Environmental Studies Major, an interdisciplinary major at Iona College linking the departments of Biology, Political Science and Religious Studies.

Daniel Martin

Dr. Daniel Martin wrote his doctoral dissertation with Thomas Berry in 1988 and later became a religious consultant for the UN Environmental Program, where he helped create and develop the Environmental Sabbath, a project designed to engage the religions of the country in the environmental agenda. In 1991, he founded International Communities for the Renewal of the Earth to create an Earth Charter for the UN Earth Summit in Brazil in 1992. Dr. Martin has worked as a consultant, integrating the Thomas Berry perspective into his dialogue-based facilitating, training, planning, and coaching work for many organizations, including the Centers for Disease Control and Prevention, the American Heart Association and multiple human service agencies.

W-7 Improvisation for Scientists: Communicate Clearly and Dynamically Schimmel Theater Lobby

Facilitator

• Jennifer Joy, jjoy@jenniferjoyonline.com

About the Facilitator

Jennifer Joy, performing artist, writer and trainer. As a performer, Jennifer Joy has a specialty in science-themed shows. She has performed her one-woman show, The Physics of Love, at a variety of theatres, including Highways in Santa Monica, Laurie Beechman Theatre in New York City and on the college touring circuit. She has performed her science-themed stand-up comedy at the New York Comedy Club, Broadway Comedy Club, Ochi's at Comix and others in New York City, as well as at clubs in San Francisco. She is also a speaker, having most recently given a talk on women in science at the University of Connecticut. As a trainer, Jennifer has helped clients in a variety of sectors, including corporate, scientific, academic, government and non-profit. Her presentation skills, interpersonal communication skills, business writing, American accent and creativity workshops have earned rave reviews across the country. Her clients have included many international diplomats, scientists and corporate professionals. She has also taught at the United Nations, Pace University and the City University of New York. Jennifer holds an MFA in Drama from the University of California, Irvine.

W-8 Experience Valuing Machine: Ecology, Art and the Practice of Presence *Room W-519*

Facilitators

- Devora Neumark, Goddard College, fireside@progression.net
- Jennifer Van de Pol, Goddard College, j@jvandepol.com

About the Facilitators

Devora Neumark and Jennifer Van de Pol have been engaged in an interdisciplinary artistic collaboration since 2012. Individually and collaboratively, our work investigates how performance practice and the practice of presence and mindfulness inform and influence one another. To date, explorations have involved various research-creation methodologies and media including video, live art performance, furtive installation and drawings. We believe that answering the call to beauty, attuning to empathy and compassion, and exploring subtle and intimate moments of connectivity bring us closer to aesthetic wisdom and the understanding of the

intricate binds linking ecology, culture, affect and the spirit.

Devora Neumark

Devora Neumark, Ph.D. is an interdisciplinary artist and researcher. She is a faculty member in the MFA in Interdisciplinary Arts program at Goddard College (Vermont). Her most recent body of work examines the relationship between forced displacement and home beautification practices. Moreover, she questions how these practices contribute to the perpetuation of violence in places where home is contested. She is currently developing plans to inaugurate a multiple year project aimed at creating a series of performative interventions to be located in or near the more than 1000 abandoned mining sites in Quebec and Ontario.

• Iennifer Van de Pol

Jennifer Van de Pol is an interdisciplinary artist and educator based on Vancouver Island, BC, Canada. An alumna of Goddard College, Vermont U.S.A. (M.F.A. 2013) her work has been exhibited across Canada, in the Netherlands, Sweden and the U.S.A. She explores issues around quality of being (for both artist and audience) and the possibility of subtle profundity in drawing, artist's books, video, painting and performance. In her current video and performative works, she is exploring questions such as: how does art as a form of inquiry bring us to a different, more compassionate way of understanding our humanness and interrelatedness with the environment? How can it inspire an ethics of understanding, of empathy?

W-9 Developing Leaders of Interdisciplinary Environmental and Sustainability Academic Programs: Building Program Support, and Facilitating Program Change Room W-520

Facilitators

- Mitch Thomashow, Unity College
- Rod Parnell, Northern Arizona University, roderic.parnell@nau.edu

About the Facilitators

• Mitch Thomashow

Mitch Thomashow is President Emeritus of Unity College and Director of the Second Nature Presidential Fellows Program

Rod Parnell

Rod Parnell is Coordinator of Academic Sustainability Programs at Northern Arizona University and President-Elect Council of Environmental Deans and Directors.

W-10 Assessment and Evaluation of Interdisciplinary Environmental Programs (Workshop Canceled)

Facilitators

- Antje Danielson, Tufts University, antje.danielson@tufts.edu
- Dave Gosselin, University of Nebraska, dgosselin2@unl.edu

W-11 Building a Bridge Between Two-Year and Four Year Colleges and Universities: Collaborative Solution-based Approach for Creating National Models for Interdisciplinary Environmental Sciences and Sustainability Programs

Room W-511

Facilitator

- Sudeep Vyapari, National Council for Science and the Environment
- NCSE including Community College representatives

About the Facilitator

Sudeep Vyapar

Sudeep Vyapari earned his doctoral degree (Horticulture) from Kansas State University. After 18 years of research and teaching at two universities, Sudeep worked as the Executive Director of Sustainability, for over 6 years, at Hillsborough Community College (Tampa, FL). In February 2014, he joined the National Council for Science and the Environment in Washington DC. His experiences at both 2-year and 4-year colleges provide him with a deeper understanding of the challenges and the opportunities associated with this topic.

W-12 Integrating Environmental and Health Education Room W-521

Facilitator

• Cindy Parker, Johns Hopkins University, cindyparker@jhu.edu

About the Facilitator

• Cindy Parker

Cindy Parker, MD, MPH was a Family Practice physician in New Mexico and Alaska before doing a second residency in Public Health and Preventive Medicine. Now she works primarily on the health impacts of global environmental change, such as climate change and develops interdisciplinary educational and research programs at Johns

Hopkins University. Parker is Assistant Professor of Environmental Health Sciences at Bloomberg School of Public Health; Director of the Global Environmental Change and Sustainability Major at Krieger School of Arts and Sciences; Associate Director of the Johns Hopkins Environment, Energy, Sustainability, and Health Institute; and Co-Director of the Program on Global Sustainability and Health at Bloomberg School of Public Health.

W-13 Developing Entrepreneurial Strategies for Your Environmental Career (for graduate students and recent graduates) Room W-618

Facilitators

- Phyllis Pouvat Thibodeau, Chesapeake Consulting
- Richard Pouyat, US Forest Service

About the Facilitators

- Phyllis Pouvat Thibodeau
 Phyllis Pouvat Thibodeau, is CEO at
 Chesapeake Career Consulting and is a Certified
 Career & Leadership Development Coach.
- Richard Pouyat

Richard Pouyat is National Program Leader Bioclimatology and Environmental Science Research Staff at the U.S. Forest Service Research and Development Washington Office.

W-14 Read for the Earth: Connecting Formal and Informal Climate Change Education for First Year College Students *Room W-619*

Facilitators

- David Blockstein, National Council for Science and the Environment David@NCSEonline.org
- Geoffrey Haines-Stiles, Passport to Knowledge/Geoff Haines-Stiles Productions, Inc., ghs@passporttoknowledge.com
- Dan Bedford, Weber State University Department of Geography, dbedford@weber.edu

About the Facilitators

David Blockstein

David Blockstein is Senior Scientist at the National Council for Science and the Environment (NCSE) and Founding Executive Secretary of the Council of Environmental Deans and Directors (CEDD). He is the PI for the NSF-funded Climate Adaptation and Mitigation E-Learning (CAMEL) web resource www.CAMELclimatechange.org

• Geoffrey Haines-Stiles

Geoffrey Haines-Stiles, is the principal of Passport to Knowledge/Geoff Haines-Stiles Productions, Inc. and the producer of the *PBS series* "EARTH: The Operators' Manual" (ETOM), funded by NSF.

Opening Reception 5:00pm - 6:30pm Bianco Room & Courtyard (B Level East)

The SciArt6: Mannahatta - Manhattan 💿 5:00pm Bianco Room (B Level East)

Opening Keynote 6:30pm - 8:00pm Schimmel Theater

President's Opening Welcome

Wil Burns, AESS President Associate Director Master of Science, Energy Policy & Climate Program Johns Hopkins University

Paths to a 'Good' Anthropocene

Andrew C. Revkin

Senior Fellow for Environmental Understanding, Pace University Academy for Applied Environmental Studies Dot Earth Blogger, The New York Times

The environmental movement has long been built around two themes - woe is me and shame on you. But in the age of global human influence, the Anthropocene, that approach ends up resembling a circular firing squad. Is the palm oil developer the villain, or the person buying the KitKat bar or "green" biodiesel fuel derived from palm nuts?

The SciArt6 Performance: Empire State of Mind Part II -Ecology State of Mind • 6:40pm Schimmel Theater

Thursday, 12 June

Breakfast Roundtable Discussions 7:30am - 9:00am Gymnasium (C Level West)

R-1 Reducing the AESS Carbon Footprint: Call for Ideas (Mealtime Roundtable)

Facilitator

Stephanie Kaza, University of Vermont, skaza@uvm.edu

R-2 The Arts and Humanities Respond to the **Anthropocene** (Mealtime Roundtable)

Facilitator

Amy L Seidl, University of Vermont, amy.seidl@uvm.edu

R-3 Educating for an Ethic of Care to Develop **Environmental Stewardship Behaviour in the** Anthropocene (Mealtime Roundtable)

Facilitator

Marcia Thorne, James Cook University, marcia.thorne@jcu.edu.au

R-4 Using Social Networking Applications in **Environmental Studies and Science Courses** and Program Assessment (Mealtime Roundtable)

Facilitator

Karin Warren, Randolph College, kwarren@randolphcollege.edu

Plenary Panel 9:00am - 10:30am Gymnasium (C Level West)

PL-1 The Extraordinary Experience of Building A Global Regulatory Regime That Worked But Is Endangered Today: The Montreal Protocol

Facilitators

- Chair: Nancy Reichman, University of Denver, nancy.reichman@du.edu
- Marco Gonzalez, Montreal Protocol Secretariat, UNEP, gma.costarica@gmail.com

- Evaluating a Global Environmental Regime Success
- Penelope Canan, University of Central Florida, pcanan@gmail.com
 The World Is Hiring: Careers, Teaching Resources, and Scholarship Opportunities at the Intersection of Anthropocenic Ozone Layer Protection and Climate Change
- Stephen O. Andersen, Institute for Governance & Sustainable Development Lessons from the Stratospheric Ozone Layer Protection for Climate
- Brian J. Gareau, Boston College, brian.gareau@bc.edu
 A Critical Review of Delayed Methyl Bromide Phase-Out in the Montreal Protocol
- Durwood Zaelke, Institute for Governance & Sustainable Development, zaelke@igsd.org The Importance of Phasing-down Short-lived Climate Pollutants (SLCPs)

Plenary Description

Most scholars/citizens think that the ozone layer has been "fixed" or, at least, that the "most successful environmental treaty in history" is set in motion to restore our planetary sunscreen. It's true that by most yardsticks, the Montreal Protocol has been a remarkable accomplishment. We should know why and how it has been so successful. However, problematically, ozone layer restoration is NOT a fait accompli; steady progress has even been seriously undermined by vested interests; and, some technological solutions (chemical replacements) have grave implications for accelerated global warming.

AESS support for the plenary session is intended as a "briefing" and a CALL TO ACTION! The follow-on-discussion session promises to be solutions-oriented and transformative for our teaching and scholarship at the intersection of ozone layer protection and climate change. The call to action is to re-educate ourselves with up-to-date information and key contemporary issues that will inspire interest as teachers/scholars and as students with career goals in the formulation stage.

The experts assembled for the Plenary – global leaders who have crafted, managed, and studied ozone-layer protection progress to date—have been invited to present a cogent, face-paced "briefing" on

- O What made the ozone layer treaty work?
- O What were its flaws and gaps?
- O What "correctives" are needed now?
- How do we connect these "correctives" with opportunities to help in the challenge of global warming?
- What does this mean for us as academics and citizens?
- What opportunities/resources are there for us to make a difference in the Anthropocene?

At the Discussion Symposium that follows the briefing, entitled "The Montreal Protocol at a Crossroads: What

Needs Urgent Attention Now and How That Is Connected to Climate Change?," panelists and audience members will resume in a lively, interactive conversation about specific opportunities for AESS participants to be involved in these global challenges to planetary stewardship.

The SciArt6: Harper's Monologue – From Angels in America • 9:10am Gymnasium (C Level West)

Exhibition Open 10:00am – 6:00pm Student Union (B Level West)

Coffee & Snack Break 10:30am Student Union (B Level West)

The SciArt6 Puppet Show: Fanny the Farmer Meets a Troll • 10:40am
Student Union (B Level West)

Session A 11:00am – 12:30pm

A-1 The Montreal Protocol at a Crossroads: What Needs Urgent Attention Now and How That Is Connected to Climate Change?

(Discussion Symposium) *Room W-616*

This is a discussion symposium intended to provide a forum for discussion of the ideas and themes raised in the Montreal Protocol plenary.

Facilitators

- Moderator: Nancy Reichman, University of Denver, nancy.reichman@du.edu
- Marco Gonzalez, Montreal Protocol Secretariat, UNEP, gma.costarica@gmail.com

- Stephen O. Andersen, Institute for Governance & Sustainable Development
- Brian J. Gareau, Boston College, brian.gareau@bc.edu
- Durwood Zaelke, Institute for Governance & Sustainable Development, zaelke@igsd.org

A-2 Environmental Politics and Landscape Imaginaries in the Age of the Anthropocene Room W-510

Presenters

- Chair: David M. Rojas, Cornell University, dmr242@cornell.edu
 Anthropocene Approaches to Climate Politics. The Case of Forest Carbon Markets in Brazilian Amazonia
- Peter Brewitt, University of California, Santa Cruz, pbrewitt@ucsc.edu
 Same River Twice: The New West, the Old West, and Dam Removal
- Noor Johnson, Brown University, noor_johnson@brown.edu
 Landscapes of the Anthropocene and Emerging Global Environmental Politics
- Peter Wilshusen, Bucknell University, pwilshus@bucknell.edu

A-3 Synthetic Chemicals and Society: Research and Perspectives on Ethics and Environmental Health, Governance, and Education (Part I) *Room W-511*

Presenters

- Chair: Patricia DeMarco, DeMarco & Associates, demarcop6@gmail.com
 Ethical Considerations in Health and Ecosystem
 Effects of Man-made Chemicals
- Christine Vatovec, University of Vermont, cvatovec@uvm.edu
 Do No harm: Trade-offs and Tensions Between Individual and Societal Level Outcomes of Pharmaceutical Use and Disposal
- Sasha Adkins, Antioch New England, sasha.adkins18@gmail.com Health Implications of Plastic Marine Debris

A-4 Teaching in the Anthropocene I Room W-610

Presenters

 Chair: Ken Wilkening, University of Northern British Columbia, kew@unbc.edu
 Teaching the Anthropocene: Developing a Whole Earth Studies (Environmental Studies + Global Studies) Curriculum

- Gabriel Piser, The Ohio State University, piser.1@osu.edu
 Engaged, Collaborative, and Transdisciplinary:
 Experimentation in Anthropocene Environmental Studies
- Ashwani Vasishth, Ramapo College of New Jersey, vasishth@ramapo.edu
 Systems Thinking: Using the "Wicked Problems"
 Meme to Teach An Ecosystem Approach to Managing Problems of the Anthropocene

A-5 Artists of the Anthropocene: Regarding Life Aquatic Room W-612

Presenters

- Chair: Peter Anders, Planetary Collegium, ptr@kayvala.com
- Brandon Ballengée, Visiting Scientist, Redpath Museum, McGill University and Artist, brandon.ballengee@gmail.com Witness to Change: Form and Deformation in Amphibian Populations
- Aviva Rahmani, ghostnets@ghostnets.com Ghost Nets and Fish Story
- Elizabeth Damon, elizabeth.damon@gmail.com
 Keepers of the Waters, Collaborations Between Art,
 Science and Citizens

A-6 Predators and Prey Room W-615

Presenters

- Chair: Rafi Youatt, New School for Social Research, youattr@newschool.edu

 Against the Anthropocene?: Wolves of Isle Royale
 and the New Environmental Moment
- Hannah Jaicks, CUNY Graduate Center, hjaicks1@gmail.com
 Conflicts and Coexistence: Rethinking Humans' Placements and Connections with Predators Across the Greater Yellowstone Ecosystem
- Mary Frances Duggan, Antioch University, mduggan1@antioch.edu
 Anthropopic Mosquito: Old Disease and New Technology

A-7 Integrating Multifunctional Landscape Design into Agricultural Policy Room E-319

Presenters

- Chair: Jody M. Endres, The University of Illinois at Urbana-Champaign, jendres2@illinois.edu
- Rayane Aguiar, University of Illinois at Urbana Champaign, raguiar@illinois.edu

- Past and Present Efforts to Green the Common Agricultural Policy: Successes, Failures, and Future Potential for Multifunction Landscape Design
- Matthew D. Potts, University of California at Berkeley, mdpotts@berkeley.edu Best Practices for Sugarcane Production: A Landscape Perspective
- Loka Ashwood, The University of Wisconsin, ashwood@wisc.edu
 For the Public Good: Weaving a Multifunctional Landscape in the Cornbelt

A-8 The Anthropocene I Room W-619

Presenters

- Chair: Bertrand G. Guillaume, University of Technology, Troyes (France), bertrand.guillaume@utt.fr Thinking the Anthropocene Today: A View from the Philosophy of Technology
- Kate O'Neill, University of California at Berkeley, kmoneill@berkeley.edu
 The Mis-Anthropocene? Uses and Abuses of a Meta-Frame
- Andreas Kotsakis, Oxford Brookes University, akotsakis@brookes.ac.uk
 The Anthropocene and International Environmental Law: A Challenge from European Non-Centred Ecological Thought
- Invited Artist: Lenore Malen, malenl@newschool.edu
 I Am the Animal

A-9 Storytelling in the Anthropocene: Picturing People and the Planet (Discussion Symposium) *Room W-621*

Facilitators

- Moderator: Andrew Revkin, Pace University, revkin@gmail.com
- Sean Peoples, Woodrow Wilson Center, sean.peoples@wilsoncenter.org
- Solana Pyne, GlobalPost
- Sam Eaton, Independent Producer, sam_eaton@me.com

A-10 Environmental Policy Room W-620A

Presenters

 Chair: Graham Bullock, Davidson College, grbullock@davidson.edu
 The Meaning of Embedded Values in Environmental Certifications and Ratings Paul-Henry Blanchet, University of Central Florida, pblanchet@knights.ucf.edu
 Influence of Neonicotinoid Policies on Ecological Modernization

A-11 Teaching Care and Hope *Room W-624*

Presenters

- Chair: Molly Jensen, Southwestern University, jensenm@southwestern.edu
 Cultivating a Sense of Place in a Religious Studies
 Course: Teaching for Ecological Care
- Elizabeth Meacham, Ursuline College, emeacham@ursuline.edu
 Teaching Ecomindfulness: place-based mindfulness practices in an undergraduate environmental philosophy class
- Mark Hathaway, University of Toronto, mark.hathaway@utoronto.ca
 Activating Hope in the Midst of Crisis: Insights from Ecopsychology and "The Work that Reconnects"
- Thomas R. Hudspeth, UVM Environmental Program, thomas.hudspeth@uvm.edu Videos Tell Sustainability Stories to Work toward Hopeful, Local, Place-based Sustainable Futures

A-12 Watershed Management I Room W-626

Presenters

- Chair: Kenneth Shockley, University at Buffalo SUNY, kennethshockley@gmail.com Rethinking the value of stakeholder participation in generating context sensitive baselines for groundwater restoration
- Brandon Rudroff, University at Buffalo SUNY, brudroff@buffalo.edu
 Rethinking the value of stakeholder participation in generating context sensitive baselines for groundwater restoration
- Kimberly Horndeski, The Ohio State University School of Environment and Natural Resources, horndeski.1@buckeyemail.osu.edu

 Deciding How to Decide: An Evaluation of Cultural Typologies on the Decision Rule Making Process in Watershed Organizations
- Alexander Heeren, School of Environment and Natural Resources- The Ohio State University, heeren.2@osu.edu
 Coupled Human and Natural Systems in Ohio's Maumee Watershed

A-13 TOXIC RELEASE! An Opportunity to Play a Unique Eco-educational Game Sponsored by EPA's Toxics Release Inventory University Challenge (Discussion Symposium)

Room W-618

Presenters

 Moderator: Curt Gervich, SUNY Plattsburgh Center for Earth & Environmental Science, cgervich@gmail.com

Lunch Roundtable Discussions 12:30pm – 2:00pm Gymnasium (C Level West)

R-5 Bridging Communication between Local Cities/Towns/Villages and Colleges/Universities to Better Respond to Increasingly Stochastic Climate Conditions (Mealtime Roundtable)

Facilitator

 Rebecca Morgenstern Brenner, Ithaca College and Town of Danby, rbrenner@ithaca.edu

R-6 Environmental Studies + Global Studies: Continuing the Conversation (Mealtime Roundtable)

Facilitator

 Ken Wilkening, University of Northern British Columbia, kew@unbc.edu

R-7 Running a Successful ENV Program in Challenging Times (Mealtime Roundtable)

Facilitators

- Leah H. Joseph, Ursinus College, ljoseph@ursinus.edu
- Richard L. Wallace, Ursinus College, rwallace@ursinus.edu

R-8 Wicked Dialogues to Address Wicked Problems (starting with wicked questions!) (Mealtime Roundtable)

Facilitators

- Ju-Pong Lin, MFA, Goddard College & Antioch University New England, jlin@antioch.edu
- Teresa Konechne, MFA, Working Hands Productions, tontheroad@yahoo.com

The SciArt6 Performance: Leveraged Synergies Press Conference 12:45pm
Gymnasium (C Level West)

Session B 2:00pm – 3:30pm

B-1 The Anthropocene and the Urban Challenge: Social-Ecological Research and Practice in New York City Room W-619

Presenters

- Chair: Peleg Kremer, The New School, kremerp@newschool.edu
 A Classification for Comparative Urban Ecology and Resilient Urban Design
- Nevin Cohen and Roitsa Ilieva, The New School, cohenn@newschool.edu and ilievar@newschool.edu
 Greening the Urban Foodshed: Cities as Drivers for Food System Change
- Robert Buchanan, The New School, buchanan@newschool.edu
 Monitoring Water Quality When (and Where) Government Agencies Won't
- Zoe Hamstead and Timon McPhearson, The New School, zhamstead@gmail.com and mcphearp@newschool.edu
 A Classification for Comparative Urban Ecology and Resilient Urban Design
- Invited Artist: Ellie Irons, ellie@ellieirons.com Invasive Pigments

B-2 Environmental Clinical Education: An Interdisciplinary Training Program for the Student Practitioner (Discussion Symposium) *Room W-510*

Facilitators

- Moderator: Michelle D. Land, Pace University, mland@pace.edu
- John Cronin, Pace University, jcronin@pace.edu
- Andrew Revkin, Pace University, revkin@gmail.com
- David Cassuto, Pace University, dcassuto@law.pace.edu
- Nadya Hall, Pace University, nh16682p@pace.edu

B-3 Synthetic Chemicals and Society: Research and Perspectives on Ethics and Environmental Health, Governance, and Education (Part II) Room W-511

Presenters

- Co-Chair: Bhavna Shamasunder, Urban and Environmental Policy Department, Occidental College, bhavna@oxy.edu
 Expert Contestations over Chemical Biomonitoring
- Co-Chair: Caroline Scruggs, University of New Mexico, cscruggs@unm.edu
- Rebecca Smullin Dawson and Seirra Marie Hall, Global Health Studies and Biology, Allegheny College, rdawson@allegheny.edu
 Examining the Role of Environmental Epidemiology in Populations with Known Chemical Exposures
- Martha Richmond, Department of Chemistry and Biochemistry, Suffolk University, mrichmond@suffolk.edu
 The Regulatory Framework for Approval of Gasoline Additives: MMT and Tetraethyl Lead. What Has the US Learned from Past Mistakes?
- Jennifer Allen, Institute for Sustainable Solutions, Portland State University, jhallen@pdx.edu
 The "Wicked" Problem of Chemicals Policy and an Update on Oregon's Chemicals Policy Initiatives

B-4 North American Food Resilience: JESS Special Issue Preview (Part 1) Room W-624

Presenters

- Chair: Gerald Marten, EcoTipping Points Project, gerrymarten@hawaii.rr.com
 Changes in the North American Food System during Recent Decades: What Can We Do to Strengthen Its Resilience?
- Peter J. Jacques, University of Central Florida, peter.jacques@ucf.edu
 Scaling Up Crises: Critical Problems for Food Security and Sustainability
- Sarah Rotz and Evan Fraser, University of Guelph, srotz@uoguelph.ca and frasere@uoguelph.ca Food System Vulnerability and Adaptive Capacity: Understanding the political economy of agriculture to better assess the resilience of the North American food system to climate change: A Review
- Casey Hoy and Ben Kerrick, Ohio State University, hoy.1@osu.edu
 Agroecosystem Health, Resilience, and Diversification

B-5 Educating for Planetary Stewardship in the Anthropocene: Bringing Asia into the Environmental Classroom Room W-610

Presenters

- Chair: Joan L. Morrison, Trinity College, joan.morrison@trincoll.edu The Urban/Environmental Nexus in International Education: Trinity College in China and Southeast Asia
- Thomas Lutze (on behalf of Abigail R. Jahiel), Illinois Wesleyan University, tlutze@iwu.edu; ajahiel@iwu.edu

 Centering Asia in Environmental Studies: How Are

 U.S. Institutions of Higher Learning Responding to this Curricular Imperative?
- Xiangming Chen and Michael Lestz, Trinity College, The Urban/Environmental Nexus in International Education: Trinity College in China and Southeast Asia
- Astrid Cerny, New York University, astrid.cerny@nyu.edu
 The One and Many Asias: The Case for Considering Central Asia as Central to Environmental Teaching in Higher Education

B-6 Governing Oceans Room W-612

Presenters

- Chair: Natalie Bump Vena, Northwestern University, natalie.bump@nlaw.northwestern.edu
- Jennifer Telesca, New York University, jentelesca@gmail.com
 The Tragedy of the Tragedy of the Commons': Critical Reflections from the Depths of Ocean Governance
- Tiffany Smythe, U.S. Coast Guard Academy, tiffany.c.smythe@uscga.edu
 How Practitioners Manage Ocean and Coastal Social-Ecological Systems: Mental Models and Social Network Analysis Approaches
- Invited Artist: Courtney Mattison, cm@courtneymattison.com
 Our Changing Seas

B-7 Design for Living: Considering Sustainability Pedagogy in Art and Design Education

(Discussion Symposium) *Room W-615*

Facilitators

- Moderator: Carl A. Zimring, Pratt Institute, carl.zimring@gmail.com
- Amy Deines, Lawrence Technological University, adeines@ltu.edu
- Hélène Day Fraser, Emily Carr University of Art + Design, hfraser@ecuad.ca
- David Bergman, Parsons the New School for Design, david@cyberg.com

B-8 Conserving Animals Room W-618

Presenters

- Chair: David Blockstein, National Council for Science and the Environment, Project Passenger Pigeon, david@cedd.org Did the Anthropocene Begin in 1914?
- Erika Crispo, Pace University, ecrispo@pace.edu Conservation in the Genomics Era
- Erika Saeb, s1erika@knights.ucf.edu The Correlation between the Policies of Project Tiger and Population Decline
- Richard Shearman, Rochester Institute of Technology, rlsgsh@rit.edu Lost Ducks in a Rambunctious Garden

B-9 Architecture, Risk, and Opportunity in the Anthropocene Room W-616

Presenters

- Chair: Daniel A. Barber, University of Pennsylvania, danielbarber@earthlink.net The Post-Oil Architectural Imaginary in the 1950s
- Jonathan Massey, Syracuse University, jmassey@syr.edu Governing through Resilience
- Rania Ghosn, University of Michigan, rghosn@umich.edu Atlas of the Corn Belt
- Neyran Turan, Rice University, fnt1@rice.edu Strait

B-10 Teaching Strategies I Room E-319

Presenters

- Chair: Shimshon Obadia, University of British Columbia, Shimshon.Obadia@Gmail.com
- Neus (Snowy) Evans, James Cook University, neus.evans@jcu.edu.au Pedagogical Strategies for Teaching Interdisciplinary Socioecological Issues
- Lee Lee, eire.lee@hotmail.com Plastic Ocean: Using the Arts to Educate and Engage Audiences around the Ecological Problems Presented
- Steven A. Gable, Trinity Washington University, GableS@trinitvdc.edu Exploring Sustainability and Environmental Stewardship in the Undergraduate Business Administration Classroom
- Diana Watts, Trinity Washington University, WattsD@Trinitvdc.edu Sustainability Challenges: Why Undergraduate **Business Education Matters**

Kate Wayne, Western Washington University, kate.wayne@wwu.edu Climate, Thought, and the Nature of Education

B-11 Watershed Management II Room W-626

Presenters

- Chair: Amy Knisley, Warren Wilson College, aknislev@warren-wilson.edu
- Esther Conrad, University of California at Berkeley, estherconrad@berkelev.edu Are Local Water Agencies Really Preparing for Climate Change? Using Climate Change Knowledge in Drought Planning in California
- Andrea Armstrong, Utah State University, armstrong.usu@gmail.com The Unsung Players in Western Water: Local Water Management Organizations and Their Adaptive Responses to Climate Change and Urbanization
- Devin Judge-Lord, devin.jl@gmail.com Productive Disagreements: the Evolution of Variation in How Private Lands Protect Public Waters in Oregon and Washington

B-12 Designing Multi-perspective Activities to **Engage Non-majors in Environmental Science** Room W-621

Presenters

- Chair: Vikki L. Rodgers, Babson College, vrodgers@babson.edu Pitching Environmental Science to Business Students: Engaging Students in Environmental Technology Tradeoffs
- Colin Orians, Tufts University, colin.orians@tufts.edu Learning through Teamwork: Using Digital Stories to Explore Environmental Challenges and Solutions in a Non-Majors Environmental Biology Course
- Alden Griffith, Wellesley College, agriffit@wellesley.edu Sometimes there isn't a "Right" Answer: Integrating Complexity, Human Values, and Conservation in the Classroom
- Michael Daley, Lasell College, mdaley@lasell.edu Persuading People, Preserving the Planet: Applying Multiple Disciplines to Create Environmental Solutions

Coffee & Snack Break 3:30pm Student Union (B Level West)

The SciArt6 Puppet Show: Fanny and Daisy Learn Urban Farming 3:40pm Student Union (B Level West)

Session C 4:00pm – 5:30pm

C-1 Critical Thinking in/for the Anthropocene: Perspectives from Traditional Ecological Knowledge, Feminist Studies, Environmental Justice and De-Colonial Theories (Discussion Symposium)

Room W-510 Facilitators

- Moderator: Jill S. Schneiderman, Vassar College, schneiderman@vassar.edu
- Giovanna Di Chiro, Swarthmore College, gdichiro@mtholyoke.edu
- Jane Caputi, Florida Atlantic University, jcaputi@fau.edu
- Tendai Chitewere, San Francisco State University, tendai@sfsu.edu

C-2 Welcome to the Anthropocene: Symposium with Featured Artist Elizabeth Demaray

(Discussion Symposium) *Room W-614*

Facilitator

 Moderator: Elizabeth Demaray, Rutgers University, demaray@camden.rutgers.edu

C-3 Urban Agriculture Room W-612

Presenters

- Chair: Christopher Schlottmann, New York University, cps236@nyu.edu Agricultural Models in Urban Contexts
- Joana Chan, School of Natural Resources, University
 of Nebraska-Lincoln, jchan@huskers.unl.edu
 Towards a Social-ecological Understanding of Urban
 Foraging: Case Study of Chinese American Foragers
 in New York City
- Invited Artist: Jeanine McCain, Ursinus College, jmccain@ursinus.edu
 Reclamation: Cultivating live performance from research in a community-based urban gardening project in West Philadelphia

C-4 Synthetic Chemicals and Society: Research and Perspectives on Ethics and Environmental Health, Governance, and Education (Part III) Room W-511

Presenters

- Chair: Gary Silverman, Public Health Sciences, University of North Carolina, Charlotte, gsilver1@uncc.edu
 Connecting the Disconnect between Risk Perception and Risk Assessment
- Caroline Scruggs, Community & Regional Planning, University of New Mexico, cscruggs@unm.edu Public Perception and Understanding Related to Hazardous Chemicals in Consumer Products
- Curt D. Gervich, Chris Evans, Jake Eudene, and James Fonzone. Center for Earth and Environmental Science, SUNY Plattsburgh, cgervich@gmail.com TOXIC RELEASE! Using a Game to Raise Awareness about Chemical Risks and the EPA's Toxics Release Inventory

C-5 Water Resources Room W-626

Presenters

- Chair: Sanghamitra Padhy, Ramapo College, spadhy@ramapo.edu
 Property Rights to Ground Water and the Commons: Lessons from Edward's Aquifers Authority v Braggs (Texas) and the Coca Cola cases In India.
- Amy Knisley, Warren Wilson College, aknisley@warren-wilson.edu
 Which Waters Is Waters? An Epistemological Face-Off Between Science and The Law
- Natalie Bump Vena, Northwestern University, natalie.bump@nlaw.northwestern.edu Compromised Natures: Local Law, Intergovernmental Partnerships, and the Creation of Wetlands in Cook County, IL
- Hildegaard Link, CUNY Graduate Center, hildegaardl@earthlink.net
 Weather Impacts on the Water Energy Nexus: A New York State Case Study

C-6 Digging for the Anthropocene: Earth, Texts, Films

Room W-617

Presenters

- Chair: Judith Pajo, Pace University, jpajo@pace.edu Public Discourse on Nuclear Waste in the United States Since 1945
- Emily Welty, Pace University, ewelty@pace.edu
 Rising Waters: Climate Change and Theology in the
 Pacific Islands

Ilan Safit, Pace University, isafit@pace.edu Hello Anthropocene, Goodbye Earth

C-7 Developing the Sustainability Mindset in **Action** (Discussion Symposium) Room W-618

Facilitators

- Moderator: Isabel Rimanoczy, Fordham University, isabel.rimanoczy@legacycoaching.net
- Moderator: Kerul Kassel, Fielding Graduate University

C-8 Energy: Bringing the Gorilla into **Environmental Studies and Sciences**

(Discussion Symposium) Room W-615

Facilitators

- Moderator: David Blockstein, National Council for Science and the Environment, david@cedd.org
- Joseph A. Henderson, Warner Graduate School of Education, University of Rochester, joseph.henderson@rochester.edu
- John H. Perkins, The Evergreen State College, perkinsj@evergreen.edu
- Iennie C. Stephens, Clark University, istephens@clarku.edu
- Don Duggan-Haas, Paleontological Research Institution and Museum of the Earth, dad55@cornell.edu
- Amanda Graham, Massachusetts Institute of Technology

C-9 Anthropocene II Room W-619

Presenters

- Chair: Jennifer McErlean, Department of Philosophy, Siena College, mcerlean@siena.edu What is the Philosophy of Language and Why Should Environmental Scientists Care?
- Kenneth Worthy, University of California, Santa Cruz, kworthy@ucsc.edu The Invisible Nature of the Anthropocene
- Chris Crews. The New School for Social Research. crewc037@newschool.edu The End of Nature. Rise of the Anthropocenes
- Kevin I. O'Brien. Pacific Lutheran University. obrien@plu.edu and Whitney A. Bauman, Florida International University, wbauman@fiu.edu Environmental Ethics at the Pace of Ambiguity

C-10 Water Resources in the Anthropocene Room W-621

Presenters

- Chair: Leslie Gray, Santa Clara University, lcgray@scu.edu
- Gregory Mohr, greg5mohr4@cox.net A Case Study of Groundwater Policy Formulation in Santa Barbara County, California
- Lance Noel, University of Delaware, lnoel@udel.edu Electricity Production's Impact on Water Use and Quality
- Katrina Schwartz, University of Florida, kzss@ufl.edu Gridlock in the Everglades: Large-Scale Ecosystem Restoration and the Politics of the Anthropocene
- Melinda Harm Benson, University of New Mexico, mhbenson@unm.edu Adaptive Governance and Social-Ecological System Resilience in New Mexico's Rio Grande Valley

C-11 Environmental Security Room W-622

Presenters

- Chair: Skip Laitner, Economic and Human Dimensions Research Associates. econskip@gmail.com
- Mark O'Gorman, Marvville College. mark.ogorman@maryvillecollege.edu Terror and Climate: The Rhetorical Challenges of Securitizing Global Climate Change
- Margarita V. Alario, University of Wisconsin, alario9@aol.com Climatic Disruptions, Natural Resources and Conflict

C-12 Environmental Health Room W-623

Presenters

- Chair: Kristine Mattis, University of Wisconsin -Madison, kmattis@wisc.edu Environmental Health Risks from the Gulf Oil Disaster: A Comparison of Stories from Corporate and Independent News Media
- Travis L. Williams, Virginia Tech, trwilli1@vt.edu Corporate Accountability and Environmental Health Movements in Silicon Valley
- Elmer-Rico E. Mojica, Pace University, emojica@pace.edu Antibiotics: The Good, The Bad and The Ugly

C-13 Teaching about Socio-Environmental Synthesis with the Case Study Approach Room W-616

Presenters

- Chair: James D. Proctor, Lewis & Clark College, jproctor@lclark.edu
- Cynthia Wei, National Socio-Environmental Synthesis Center, cwei@seysnc.org
 Teaching about Socio-environmental Synthesis with the Case Study Approach: Promises and Challenges
- William Burnside and Judy Che-Castaldo, National Socio-Environmental Synthesis Center, bburnside@sesync.org and jchecastaldo@sesync.org Lessons from a SESYNC Short Course on Teaching S-E Synthesis with Case Studies
- Adelle Dora Monteblanco, University of Colorado at Boulder, adelle.monteblanco@colorado.edu; Sandra Laurine Cooke, High Point University; Silvia Secchi, Southern Illinois University; Alicia Claire Lloyd, Southern Illinois University Creating and Integrating an Interdisciplinary Disaster Case Study to Support Socio-Environmental Learning Goals
- Susan Caplow, University of North Carolina-Chapel Hill, scaplow@live.unc.edu; Andrea Gaughan, University of Louisville; Narcisa Pricope, University of North Carolina, Wilmington, Community-Based Management and Conservation in Africa

AESS Reception and Business Meeting 5:45pm – 7:00pm Gymnasium (C Level West)

All AESS members invited

The SciArt6:
Zero Waste Policy Games and
Tyrone Hayes Rhymes •
5:45pm
Gymnasium (C Level West)

Film Night 7:00pm

Film Screening: "Blood and Coral" Lecture Hall North (2nd Floor)

Attend the premiere of "Blood and Coral." Written, directed, and produced by Monty Hempel, president of Blue Planet United, this feature documentary examines the impacts of climate change, ocean acidification, and overfishing on coral reef ecosystems. Using for comparison one of World War II's most savage conflicts, the battle of Peleliu Island, the film reveals the global battle taking place today on the reefs offshore, where bombs have been replaced by greenhouse gases and fishing fleets perform the role of naval artillery. Blood & Coral tells the story of an island paradise that was destroyed and then restored in one of nature's incredible acts of redemption. Exploring the lessons of that redemption, the film finds long-term hope in the regenerative power of people acting in concert with natural systems to protect and restore wild coral. Running time: 71 minutes. More details and trailer at: www.blueplanetunited.org.

The film will be followed by a discussion led by the film's director, **Monty Hempel**, joined by **Ambassador Stuart Beck**, former Permanent Representative to the United Nations for Palau, and currently Palau's first Ambassador to the Oceans and Seas; and **Wil Burns**, Associate Director of the Master of Science, Energy Policy & Climate Program at Johns Hopkins University and President of AESS.

Film Screening: "The Wisdom to Survive: Climate Change, Capitalism & Community" Lecture Hall West (2nd Floor)

Bullfrog Films invites you to join us for a special film screening of "The Wisdom to Survive: Climate Change, Capitalism & Community" directed by John Ankele & Anne Macksoud. The film examines the challenges that climate change poses and discusses meaningful action that can be taken by individuals and communities. Amongst those featured in the film are Bill McKibben, Joanna Macy, Roger Payne, Richard Heinberg, Gus Speth, Stephanie Kaza, Nikki Cooley and Ben Falk. Running time 56 minutes. More details and trailer at: www.bullfrogfilms.com/catalog/wts.html. The film will be followed by a discussion moderated by Stephanie Kaza, Professor and Director of the Environmental Program at University of Vermont and AESS Board Member, with Anne Macksoud, Co-Producer and Director of the film, and Quincy Saul, writer, organizer, musician, columnist and Senior Editor for Capitalism Nature Socialism.

Meeting of The Journal for Environmental Studies and Sciences Editorial Board 7:00pm **Off Campus**

Friday, 13 June

Breakfast Roundtable Discussions 7:30am - 9:00am Bianco Room (B Level East)

R-9 An Insider's View of the Udall **Undergraduate Scholarship** (Mealtime Roundtable)

Facilitators

- Kathleen Purvis-Roberts, Pitzer College. kpurvis@kecksci.claremont.edu
- Richard L. Wallace, Ursinus College, rwallace@ursinus.edu

R-10 Rent to the World: A New Way to Think about Planetary Stewardship in the Age of the **Anthropocene** (Mealtime Roundtable)

Facilitator

Laura Ballantyne-Brodie, New York University, lbb325@nyu.edu

R-11 Wicked Dialogues to Address Wicked Problems (starting with wicked questions!) (Mealtime Roundtable)

Facilitators

- Ju-Pong Lin, MFA, Goddard College & Antioch University New England, jlin@antioch.edu
- Teresa Konechne, MFA, Working Hands Productions, tontheroad@yahoo.com

JESS Meeting with AESS Board 7:30am Boardroom South (18th Fl.)

Session D and Presentations by Student Award Finalists 9:00am - 10:30am

D-1 New York City Ecology Room W-504

Facilitators

Chair: Ryan W. Taylor, Purchase College - SUNY, ryan.taylor@purchase.edu

- The socio-ecological consequences of beaver resurgence in New York City's watershed
- Novem Auyeung, NYC Department of Parks & Recreation, novem.auyeung@parks.nyc.gov NYC Urban Field Station: A Physical and Conceptual Space for Social-Ecological Research and Practice
- Jose Pillich, CUNY Graduate Center, pillich@gmail.com; and Yehuda L. Klein, Brooklyn College, yklein@brooklyn.cuny.edu New York City: Understanding the Interconnected Factors of the Urban Heat Island Effect
- Invited Artist: Jenifer Wightman, ieniwightman@gmail.com Microbial Portraits of NYC - Colorful Bacteria Colonize the Underbelly of Some of the Most Polluted NYC Waterways

D-2 Environmental Chemistry Room W-519

Facilitators

- Chair: Song Gao, Nova Southeastern University, sg1002@nova.edu Unraveling Chemical Identities and Formation Mechanisms of Atmospheric Aerosols via Laboratory and Field Studies
- Siobhan Ming, Melanie Campbell, Dimitri Giarikos, Nova Southeastern University Unraveling Chemical Identities and Formation Mechanisms of Atmospheric Aerosols via Laboratory and Field Studies
- Syu-Ruei Jhang, jgvm5028@gmail.com; Kang-Shin Chen; Yuan-Chung Lin, yuanchung.lin@gmail.com; Po-Ming Yang, National Sun Yat-Sen University; and Sheng-Lun Lin, Cheng Shiu University The Study of Fuel Using Energy Saving and Air Toxic Reduction Under Various Vehicle Driving Condition
- Shang-Cyuan Chen, Shang.Quan0203@gmail.com Using Experimental Design to Evaluate the Effect of Acid Hydrolysis on the Saccharification from Miscanthus

D-3 Searching for Effective Curricula: Debating the National Council on Science and the **Environment's 2013 Report on Curriculum**

Design (Discussion Symposium) Room W-520

Facilitators

- Moderator: Richard L. Wallace, Ursinus College, rwallace@ursinus.edu
- James D. Proctor, Lewis & Clark College, iproctor@lclark.edu
- Stephanie Kaza, University of Vermont, skaza@uvm.edu
- Susan G. Clark, Yale University, susan.g.clark@yale.edu

D-4 North American Food Resilience: JESS Special Issue Preview (Part 2) Room W-521

Presenters

- Chair: Gerry Marten, EcoTipping Points Project, gerrymarten@hawaii.rr.com
 Reinventing Local and Regional Food Systems to Compensate for Vulnerabilities in North America's Food Supply
- Kent A. Curtis, Edible Peace Patch Project, kip.curtis@gmail.com
 Stealth Security: Building Food Systems for the Present as a Strategy for Long Term Resilience
- Janet Macfall, Elon University, macfallj@elon.edu Effects of Biological and Agricultural Diversity on Security and Resilience in Food Systems
- Teddie Phillipson-Mower, University of Louisville, t.phillipsonmower@louisville.edu
 Food System Resilience, Education, and Synergistic Opportunities through Coproduction

D-5 Silo Busting for Dummies I: If We Can So Can You!!

Room W-522

Presenters

- Chair: David Gosselin, University of Nebraska-Lincoln, dgosselin2@unl.edu
 Preparing Students for the Complexities of the Workplace: Linking Learning Outcomes, 21st
 Century Competencies and the Geosciences through InTeGrate
- Antje Danielson, Tufts University, antje.danielson@tufts.edu
 Using systems mapping and model-based reasoning in case simulation exercises
- Rod Parnell, School Earth Sciences & Environmental Sustainability NAU
- Kristin O'Connell, Carleton College, koconnell@carleton.edu
 Supporting Interdisciplinary Teaching about the Earth with the InTeGrate Website

D-6 Anthropocenic Discards and the Hydrocarbon Economy I: Circulations of Commodities in Art, Economy and Culture Room W-628

Presenters

- Chair: Samantha MacBride, Baruch College School of Public Affairs, samantha.macbride@baruch.cuny.edu
- Sasha Adkins, Antioch University New England, sasha.adkins18@gmail.com
 Plastic Marine Debris: An Unintended Consequence of Disposable Culture

- D.G. Webster, Dartmouth College, d.g.webster@Dartmouth.edu
 Discards and the Anthropocene: Satisficing, magical thinking, and norms of disposability
- Simone Feracina, OEFFICE, simone@organseverywhere.com *Reactivation of Wastes*
- Atiq Uz Zaman, University of South Australia, atiq.zaman@mymail.unisa.edu.au
 Application of Zero Waste Index as an Alternative Performance Assessment Tool: The Context of Adelaide

D-7 Interdisciplinary Approaches in Urban Stormwater Management Room W-523

Presenters

- Chair: Melissa Keeley, George Washington
 University, keeley@gwu.edu
 Perspectives on the Use of Green Infrastructure for
 Stormwater Management in Cleveland and
 Milwaukee
- Michael Finewood, Chatham University, mfinewood@chatham.edu
 Grey and Green Epistemologies: an Urban Political Ecology of Stormwater Governance
- Michael Simpson, Antioch University New England, msimpson@antioch.edu
 Vulnerability of Water Conveyance Infrastructure
 Due to Changing Landscape within the Context of a Changing Climate
- Katherine Meierdiercks, kmeierdiercks@siena.edu; Jean Mangun, jmangun@siena.edu; Mary Beth Kolozsvary, mkolozsvary@siena.edu; Kevin Rhoads, krhoads@siena.edu, Siena College Community-Needs Based Stormwater Monitoring Programs to Achieve More Effective, Science-Based Urban Watershed Management Plans and Students Educated to Implement

D-8 Energy Policy I Room W-608

Presenters

- Chair: Glenn Weinberg, CUNY, gtweinberg@gmail.com
 Sustainable Stimulus? Assessing the Development and Socio-environmental Impacts of a Multi-billion Dollar Federal Sustainable Energy Program
- Amy E. Giroux, University of Central Florida Political Ecology Lab, girouxae@knights.ucf.edu Watt will it cost?: Long term cost comparisons of various energy infrastructures
- Mark J. O'Gorman, Maryville College, mark.ogorman@maryvillecollege.edu

Energy Management in The Conservative South: How Energy Efficiency Resilience Overcomes Red State Socio-Political Resistance

Amber Szalanski, University of Central Florida, aszalanski@knights.ucf.edu The Relationship between Hydraulic Fracturing Disclosure Regulations and the Revenue Generated by State in the United States

D-9 Blood & Coral (Discussion Symposium) Room W-602

Facilitators

- Moderator: Monty Hempel, University of Redlands, monty_hempel@redlands.edu
- His Excellency Stuart Beck, Ambassador from Palau to the United Nations

D-10 Student Awards Panel Room W-604

Presenters

- Coordinator: Kate O'Neill, University of California-Berkeley, kmoneill@berkeley.edu
- Manisha Anantharaman, University of California at Berkelev Recycling Class: Green Consumption and Citizenship among the New Middle Classes of Bangalore, India
- Andrea Armstrong, Utah State University The Unsung Players in Western Water: Local Water Management Organizations and their Adaptive Responses to Climate Change and Urbanization
- Alexander Heeren, School of Environment and Natural Resources, The Ohio State University Coupled Human and Natural Systems in Ohio's Maumee Watershed
- Justin Whitney, Mississippi State University Geo-engineering an Anthropogenic Landscape: California's Landfills

D-11 Sustainable Development Room W-605

Presenters

- Chair: Eric Michael Hirsch, The University of Chicago, Department of Anthropology, erichirsch@uchicago.edu Investing in Forever: Climate Change and the Contested Future of Development in Peru and the **Maldives**
- Haley C. Flora, Lewis and Clark College, florah@lclark.edu Exporting Sustainable Development: Uncovering Appropriate Roles for NGO's within Haiti's Development Climate
- Manisha Anantharaman, University of California at Berkeley, m.anantharaman@berkeley.edu

- Recycling class: Green Consumption and Citizenship among the New Middle Classes of Bangalore, India
- Simone Pulver, UC Santa Barbara, pulver@es.ucsb.edu Carbon Market Networks: Organizational Responses to International Climate Policy in Brazil and India

D-12 Power, Vulnerability, Responsibility Room Y-22 (2nd Fl.)

Presenters

- Chair: Laura M. Hartman, Augustana College. laurahartman@augustana.edu Ethics and Climate Geoenaineering: Philosophical Approaches to Evaluating Technology
- N.A.J. Taylor, Centre for Dialogue, La Trobe University Shared vulnerability in the Anthropocene: Nuclear weapons, harm, the biosphere
- Justin Whitney, Mississippi State University, jw2218@msstate.edu Geo-engineering an Anthropogenic Landscape: California's Landfills
- Invited Artist: Eve Laramee, Pace University, elaramee@pace.edu Glow: Tracking Our Nuclear Legacy Through Eco/Environmental Art

D-13 Art's Critical Role in Linking Climate Science with Global Engagement (Discussion Symposium) Room E-319

Facilitators

- Moderator: Valerie I. Amor. Drawing Conclusions LLC, valeriejamor@gmail.com
- Marina Psaros, Coravai, marina@coravai.com
- Natalie Jeremijenko, New York University, njeremijenko@gmail.com
- Aviva Rahmani, University of Colorado at Boulder, ghostnets@ghostnets.com

Coffee & Snack Break 10:30am Student Union (B Level West)

The SciArt6 Performance: Wasted on Waste, Part I o 10:40am Student Union (B Level West)

Exhibition Open 10:30am – 7:30pm Student Union (B Level West)

Session E 11:00am – 12:30pm

E-1 Changing Climate Politics in the United States

Room W-617

Presenters

- Chair: Yael Wolinsky-Nahmias, University of Southern California, ynahmias@usc.edu
- Barry Rabe, University of Michigan, brabe@umich.edu
 A New Era in States' Climate Policies?
- Rachel Krause, University of Kansas, rmkrause@ku.edu
 - Climate Policy Innovation in American Cities
- Daniel Smith and Diana Forster, University of Florida, dasmith@ufl.edu and adforster@ufl.edu Environmental Policies on the Ballot
- Dennis Chong, University of Southern California, chongd@usc.edu
 Explaining Public Conflict and Consensus on the

E-2 Minority Youth-Centered Environmental Education Activism in Rural Indian Country Room W-510

Presenters

Climate

- Chair: Jessica L. Black, Heritage University, black_j@heritage.edu
 Reconnecting Tribal Youth to Community Conservation: Mentoring and Environmental Research Projects - the EnvironMentors Program
- Kazuhiro Sonoda and Michael A. Parra, Heritage University, sonoda_k@heritage.edu and parra_m@heritage.edu Reconnecting Tribal Youth to Community Conservation: Mentoring and Environmental Research Projects - the EnvironMentors Program
- Kazuhiro Sonoda, Heritage University, sonoda_k@heritage.edu
 Immersive Field Course as Culturally-Based Activist Education in Indian Country of Pacific Northwest

E-3 Wilson's Bottleneck and Ex Situ Conservation Room W-511

Presenters

- Chair: George Smith, City College of New York, gsmith2@ccny.cuny.edu
 Reflections on Ex Situ Stewardship
- Sheri Breen, University of Minnesota, Morris, breens@morris.umn.edu
 A Political Analysis of Ex Situ International Seed Storage
- George Amato, American Museum of Natural History, gamato@amnh.org
 Ex Situ Conservation in an Age of Genomics

E-4 Food Systems Room W-612

Presenters

- Chair: Mohammed Rabbi, Valley Forge Military College, mrabbi@vfmac.edu
 Climate Change Risks and Food Security in South Asia: A Trend Analysis
- Christopher Bacon, Santa Clara University, cbacon@scu.edu; Barbara Goldoftas, Clark University; Ian Daugherty, United Farm Workers Foundation; William A. Sundstrom, Santa Clara University; Maria Eugenia Flores-Gomez, Community Agroecology Network; V. Ernesto Mendez, University of Vermont; Rica Santos, NCSE Explaining the Hungry Farmer Paradox': Smallholders and Fair Trade Cooperatives Navigate Seasonality and Change in Nicaragua's Corn and Coffee Markets
- Kristal Jones, The Pennsylvania State University, klj175@psu.edu
 Exploring the Relationships between Ecological Setting and Food Sovereignty Movements: An Example of West African Seed Systems
- Jessica Racine Jacques, University of Central Florida, jaltif@knights.ucf.edu
 The Food Treadmill: a Critical Approach to Understanding Food Insecurity

E-5 Silo Busting for Dummies II: If We Can Do It So Can You!! Room W-624

Presenters

 Chair: David Gosselin, University of Nebraska-Lincoln, dgosselin2@unl.edu
 Lowering the Walls and Crossing Boundaries: Applications of Business-based Professional

- Assessments to the Development of Interdisciplinary Teams
- Shirley Vincent, National Council for Science and the Environment, svincent@ncseonline.org Three Views on Interdisciplinarity: Results from a National Survey of Program Leaders
- Chris Thaxton, Appalachian State University, thaxtoncs@appstate.edu
 An Interdisciplinary Environmental Professional Science Master's (PSM) Program at Appalachian State: Creative Solutions from Viability to Approval

E-6 Anthropocenic Discards and the Hydrocarbon Economy II: Material and Energy Transformations Room W-626

Presenters

- Chair: Samantha MacBride, Baruch College School of Public Affairs, samantha.macbride@baruch.cuny.edu Waste-to-Energy and the Anthropocene: A Meeting Point Within Contradictory Biophysical Strategies
- Will Delavan, Lebanon Valley College, delavan@lvc.edu
 The Harrisburg Incinerator: A Cautionary Tale from the Dismal Science
- David Ruppert, Texas A&M University, David.Ruppert@tamuk.edu
 Parable of the Plow and the Sun
- Robin Nagle, New York University Draper Program, robin.nagle@nyu.edu
 Zero Waste: Zero Impact or Brave New Paradigm?

E-7 Integrating Teaching and Research at the United States Coast Guard Academy: Preparing Future Officers for a Changing Climate Room W-615

Presenters

- Chair: George Stetson, United States Coast Guard Academy, george.a.stetson@uscga.edu Increased Shipping in the Bering Strait: Working with Alaska Natives and (future) Coast Guard Officers
- Tiffany Smythe, United States Coast Guard Academy, tiffany.c.smythe@uscga.edu Marine Spatial Planning: Preparing Future Coast Guard Officers for a New Era of Ocean Governance
- Karina Mrakovcich, karina.l.mrakovcich@uscga.edu; Lucy Vlietstra, lucy.s.vlietstra@uscga.edu; LCDR Victoria Futch, victoria.c.futch@uscga.edu; Brooke Stutzman, brooke.s.stutzman@uscga.edu, US Coast Guard Academy

Developing a Course on Climate Change: Preparing Future Coast Guard Officers for a Changing Climate

E-8 Sustainable Business and Policy Reform: Limits and Possibilities *Room W-616*

Presenters

- Chair: Eban Goodstein, Bard Center for Environmental Policy, ebangood@bard.edu The Emerging Future Economy: Business and Policy Synergies
- Elysa Hammond, Clif Bar Corporation, ehammond@clifbar.com
 Reinventing the Food System: Collaboration across Companies
- Jon Isham, Middlebury College, jisham@middlebury.edu
 Student Social Entrepreneurs: Are They Changing the World?
- Deborah Rigling Gallagher, Duke University, deb.gallagher@duke.edu
 Corporate Engagement on Climate, The UN Compact Report

E-9 Hispanics, Latinos and the Environment *Room E-319*

Presenters

- Chair: Adelle Dora Monteblanco, University of Colorado at Boulder, adelle.monteblanco@colorado.edu
- Bruno Takahashi, Michigan State University, btakahas@msu.edu and Juliet Pinto, Florida International University, gillj@fiu.edu Environmental Issues Among Hispanics and Latinos: A Perspective from Journalism and Mass Communication
- Roger Rivera, National Hispanic Environmental Council, rrivera@nheec1.org
 Science and Latinos--Dispelling Myths in Latino Student Outreach: Successful Principles and Methods in the NHEC Environmental Institutes Model
- Denise Torres, The Graduate Center City University of New York, tcc.denise@yahoo.com; Phoebe Godfrey and Dianisi Torres, University of Connecticut, torres.dianisi@gmail.com

 Cocinando Con Comunidad: A Cooperative Kitchen as an Agent of Transformation

E-10 Trust and Natural Resource Management *Room W-619*

Presenters

 Chair: Jean Mangun, Siena College, jmangun@siena.edu

- Kimberly Coleman, Virginia Tech, kimjc84@vt.edu Confirmatory Factor Analysis of the Multidimensionality of Trust in Natural Resource Contexts
- Vanessa Levesque, vanessa.r.levesque@maine.edu; Aram Calhoun; Kathleen Bell, University of Maine, Turning contention into collaboration: The role of collaborative networks in natural resource aovernance

E-11 Environmental Values in Action Room W-618

Presenters

- Chair: James E. Boulter, University of Wisconsin-Eau Claire, boulteje@uwec.edu
 What are They Thinking? Climate Change
 Awareness, Perceptions and Beliefs of Adults and College Students in the US and China
- Eric Jamelske, University of Wisconsin-Eau Claire, jamelsem@uwec.edu
 What are they thinking? Climate change awareness, perceptions and beliefs of adults and college students in the US and China
- Paul Nelson and Caryl Eleanor Waggett, Allegheny College, nelsonp@allegheny.edu and cwaggett@allegheny.edu
 Evaluating Nicaraguan and Nicaraguan American Perception of Global Climate Change: Implications for American Latinos Involvement in US Climate Change Movement
- Laurie Hurson, The City University of New York, The Graduate Center, laurie.hurson@gmail.com
 The Complexity of Simple Living: Lifestyles in Process
- Lissy Goralnik and Michael P. Nelson, Oregon State University, lissy.goralnik@oregonstate.edu and mpnelson@oregonstate.edu
 Field Philosophy: From Dualism to Complexity Through the Borderland

E-12 Energy Policy II Room W-610

Presenters

- Chair: Mary Collins, University of Maryland
- Gwen Ottinger; Tim Hargrave, thargrave@uwb.edu, University of Washington-Bothell; and Lauren Hartzell-Nichols, University of Washington, greenphd@uw.edu
 Just Renewable Energy Policy: Developing an Integrated Ethical Framework
- Andrea Marie Feldpausch-Parker, SUNY ESF, Powering the Anthropocene: News Media's Take on the Future of Energy
- Invited Artist: Mark Lee Koven, Utah State University, Between Form and Function

E-13 Collaboration in Teaching the Anthropocene Across Disciplines *Room W-621*

Presenters

- Chair: Melissa Johnson, Southwestern University, meljohn@southwestern.edu
 Reframing an Introduction to Cultural Anthropology
 Course around the Anthropocene
- Erika Berroth, Southwestern University, berrothe@southwestern.edu
 Shades of Green: Reflection on the Role of Modern Languages and Literature Programs within
 Environmental Humanities and the Anthropocene
 Studies
- Laura Hobgood-Oster, Southwestern University, hoboster@southwestern.edu
 How Does the Anthropocene Fit into a Religion Classroom?
- Emily Northrop, Southwestern University, northrop@southwestern.edu
 The Competing Goals of Economic Growth and Climate Stability in the Introductory Economics Course

Afternoon Fieldtrips 12:30pm – 5:30pm Student Union (B Level West)

Boxed lunch pick up and field trip leader meeting place. All field trips will depart with their leader from the Student Union at the times written below.

T-1 The New York Botanical Garden Tour *nybg.org*

Depart Student Union at 1:30pm.

T-2 Randall's Island Greenroof Tour

nycgovparks.org

Depart Student Union at 1:20pm.

T-3 Brooklyn Grange Rooftop Farm Tour

brooklyngrangefarm.com

Depart Student Union at 1:15pm.

T-4 Central Park Tour of the North Woods

centralparknyc.org

Depart Student Union at 1:20pm

T-5 NYC Statue Sail Aboard the Clipper City

manhattanbysail.com

Depart Student Union at 1:05pm.

T-6 Jamaica Bay Wildlife Refuge Tour

nyharborparks.org

Depart Student Union at 1:00pm.

T-7 The High Line Tour

thehighline.org

Depart Student Union at 1:50pm.

T-8 Manhattan Kavak Fun in the Sun Tour

manhattankayak.com

Depart Student Union at 1:15pm

T-9 American Museum of Natural History

amnh.org

Depart Student Union at 1:15pm.

T-10 Sims Recycling Facility Tour

smsmm.com

Depart Student Union at 1:15pm.

T-11 Newtown Creek Waste Water Treatment **Plant Tour**

nyc.gov

Depart Student Union at 1:05pm.

The SciArt6:

Leveraged Synergies Encounter • 12:45pm

Student Union (B Level West)

Exhibitions 5:30pm - 7:30pm Student Union (B Level West) Poster Session 6:30pm - 7:30pm Bianco Room (B Level East)

P-1 Advancing Quantification Methods of Sustainability: A Critical Examination Emergy, Exergy, Ecological Footprint, and Ecological **Information-Based Approaches**

Ali Kharrazi (ali@pp.u-tokyo.ac.jp) and Masaru Yarime, University of Tokyo

P-2 An Emerging Paradigm: The Structure of an Eco-Revolution: New Science & the Social **Imaginary**

Alyce Santoro (alyce@alycesantoro.com)

P-3 Assessing Drinking Water Quality and Local Marine Water Chemistry in South Florida

Roshni Patel, Karem Molinares, and Song Gao, Nova Southeastern University

P-4 Assessing the Impact of a Combined Sewer Separation Project on Water Quality in Blackwater Creek, Virginia

Karin Warren (kwarren@randolphcollege.edu) and Kavya Pradhan, Randolph College

P-5 Assisted Migration at the Community Level

Melody Flores (mf67311n@pace.edu), Pace University

P-6 Bioeconomic Modeling of the Atlantic Menhaden

Jesse Alston (jealston@davidson.edu), Davidson College

P-7 Changing Actors and Discourse: An Analysis of Ten Years of Media Coverage in Vermont's Wind Power Debate

Neil Brandt, University of Vermont: Richard Watts. University of Vermont Environmental Program

P-8 Disturbance and Urban Wildlife Distribution: Using camera traps to identify wildlife populations in transition on a suburban College campus

Evan P. Leahy (ep08leah@siena.edu), Jean Mangun (jmangun@siena.edu), and Matthew J. Porter (mj31port@siena.edu), Siena College

P-9 Emerging Contaminants Are New Threats to the Environment

Hillary Bundick (hb64556p@pace.edu) and Elmer-Rico E. Mojica (emojica@pace.edu), Pace University

P-10 Environmental Ethics Entrepreneurship: Transforming Urban Public Education for the 21st Century

Mischelle Brown (mischelle.brown@case.edu), Case Western Reserve University

P-11 Ezulwini Valley Environmental Health Assessment

Samantha R. Shafer (sshafer@lclark.edu), Lewis & Clark College

P-12 Flood Resilient Infrastructure and Sustainable Environments (RISE) Project

Kristen Goodrich, Brett Sanders, and Richard Matthew, University of California, Irvine

P-13 Geospatial Analyses of Drainage Network Structures in Small Urban Watersheds

Matthew Porter (mj31port@siena.edu), Elizabeth Caprotti, and Katherine Meierdiercks (kmeierdiercks@siena.edu), Siena College

P-14 Geospatial thinking in the Anthropocene: Using GIS to identify Piping Plover (Charadrius melodus) breeding habitat and stressors

Nicholas J. Mancuso (nj04manc@siena.edu) and Jean Mangun (jmangun@siena.edu), Siena College

P-15 Greening Urban Growth: Assessing the Prospects of a "Green" National Growth Strategy

Anna Rose McGeehan (amcgeeha@live.unc.edu), School of Government at University of North Carolina-Chapel

P-16 Integrating Literature and Environmental Science in the General Education Curriculum: The Appalachians

Charles A. McClaugherty (mcclauca@mountunion.edu), and Katherine McMahon (mcmahokg@mountunion.edu), University of Mount Union

P-17 Network Analysis and Global Wildlife Trade: A New Approach to Understanding a Major and Growing International Issue

Yogesh Dongol (ydong005@fiu.edu), Florida International University

P-18 On the Cusp of the Homogenozoic

Jay H. Jones, University of La Verne

P-19 Oxford: The Thousand Year City

Joseph Michael Lombard (jml275169@email.vccs.edu), Virginia Western Community College

P-20 Policy-driven Collective Action for Sustainable Natural Resource Governance in China's Arid Lands

Yu Rong Liu (joyliu@email.arizona.edu), University of Arizona

P-21 Promotion of Energy Saving and Reduction of Air Toxic Emissions from Water-Containing Butanol/Biodiesel/Diesel Blends on Diesel Engine

Yuan Chung Lin (yuanchung.lin@gmail.com), Institute of Environmental Engineering; Po-Ming Yang and Syu-Ruei Jhang (jgvm5028@gmail.com), National Sun Yat-Sen University

P-22 Reclaiming an Abandoned Lot Near the City Gateway through the Use of a Bioretention Basin, Meadville, PA

Ian Aziz Arturo (arturoi@allegheny.edu), Allegheny College

P-23 Sustainable Articulture

Rhonda R. Janke (rrjanke@ksu.edu), Kansas State University

P-24 The Invisible College: An Exploration into Underground Design

Jon C. Cawley (jcawley@roanoke.edu), Roanoke College

P-25 Thinking Simple to Effectively Communicate With the Public: A Case Study with Karen Refugees

Christina MacFarlane (ca27macf@siena.edu), Mary Beth Kolozsvary (mkolozsvary@siena.edu) and John Harden (jharden@siena.edu), Siena College

P-26 Timberrr!: Timber Harvesting Patterns and Practices in Massachusetts

George Andrews (gandrews@worcester.edu), Worcester State University; David B. Kittredge (dbkitt@gmail.com), University of Massachusetts Amherst

P-27 Underground Railroad History Story Mapping

Evan Leahy (ep08leah@siena.edu), Michele Golden, Colin Murphy, and Katherine Meierdiercks (kmeierdiercks@siena.edu), Siena College

P-28 Upgrade to Energy Efficient Appliances or Invest in Alternative Energy?

William Van Lopik, College of Menominee Nation

Banquet plus Performance 7:30pm -10:00pm Gymnasium (C Level West)

The SciArt6 Performance: Scenes from the Anthropocene • 7:45pm Gymnasium (C Level West)

Saturday, 14 June

Breakfast 7:30am - 9:00am Bianco Room (B Level East)

AESS Council Meeting 7:30am - 9:00am Boardroom South (18th Fl.)

Session F 9:00am - 10:30am

F-1 Artists of the Anthropocene: Awareness and Aesthetic Action Room E-319

Presenters

- Chair and Discussant: Peter Anders, Planetary Collegium, ptr@kayvala.com
- Ellen K. Levy, Institute for Doctoral Studies in Visual Art, levy@nyc.rr.com Cognitive Blindness and Global Warming
- Andrea Polli, University of New Mexico, andrea@andreapolli.com A Walk in the Woods: Investigating Ethical Design, Ubiquitous Computing and Social Media
- Cameron Anne Davis, cdavis@uvm.edu Ecstatic Environmentalism: Engaging Hearts, Inviting Action - the "Emergent Universe Oratorio" Premiere and Painting Exhibition: "Endless Spring"

F-2 Using Place I: Technology, Nostalgia, Resiliency & Mobility Room W-608

Presenters

- Chair: Brandn Q. Green, Bucknell University, bgreen@bucknell.edu
- Angela C. Halfacre, Furman University, angela.halfacre@furman.edu

- Loving a Place with a Cherished Past: Nostalgia as a Catalyst for Conservation in the Carolina Lowcountry
- Paul R. Pinet and Leah Feldman, Colgate University, ppinet@colgate.edu Humans, ethics, and barrier islands: adaptive management strategies to promote the geologicalsocial resiliency of Fire Island, NY at the onset of the Anthropocene
- Rachel F. Brummel, Lafayette College, brummelr@lafavette.edu Protecting "Minnesota's sky blue waters": Examining mobility, invasion, and place-based identity in Upper Mississippi River Asian carp management
- Joe Siry, Rollins University A Sensitivity to Places: Regeneration, Organisms, Technology, and Environments

F-3 North American Food Resilience: JESS Special Issue Preview (Part 3) Room W-519

Presenters

- Chair: Gerry Marten, EcoTipping Points Project, gerrymarten@hawaii.rr.com
- Alexander Belyakov, Ryerson University, belvakov@rverson.ca From Chernobyl to Fukushima: Responses during Nuclear Emergencies and Lessons for Food Security **Policies**
- Nurcan Atalan-Helicke, Skidmore College College, natalan@skidmore.edu Seed Saving and Agricultural Biodiversity Conservation: Food System Resilience in the U.S. and Beyond
- Evan Fraser, frasere@uoguelph.ca; Alexander Legwegoh; and K.C. Krishna, University of Guelph The Role of Storing Food to Promote a More Resilient Food System: An Historic Review

F-4 Planning and Documenting an Interdisciplinary Academic Career (Discussion Symposium) Room W-520

Facilitators

- Moderator: David M. Hassenzahl, Chatham University, National Council for Science and the Environment, dhassenzahl@gmail.com
- Stephanie Kaza, University of Vermont, skaza@uvm.edu
- Kathleen Purvis-Roberts, Pitzer College, kpurvis@kecksci.claremont.edu

F-5 Curricular Innovations in New York Room W-521

Presenters

- Chair: George Smith, CCNY, gsmith2@ccny.cuny.edu
 Reinforcing Sustainability Capstone Projects at CCNY
- Eban Goodstein, Bard College, ebangood@bard.edu Bard's New MBA in Sustainability

F-6 Environmental Stewardship in the Anthropocene: Pedagogy for Educating to Care Room W-522

Presenters

- Moderator: Marcia Thorne, James Cook University, marcia.thorne@jcu.edu.au
- Snowy Evans, James Cook University, neus.evans@jcu.edu.au

F-7 Cultivating Engagement *Room W-523*

Presenters

- Chair: Mila Plavsic, University of New England, mplavsic@une.edu
 Empowering Students to Find Hope for Themselves in the Anthropocene
- Shimshon Obadia, University of British Columbia, shimshon.obadia@Gmail.com
 How to Flow Upstream: Eco Art Connecting Students with their Learning
- Bonnie Ora Sherk, Life Frames, Inc. & A Living Library, bonnieora@alivinglibrary.org A Living Library: Cultivating The Human & Ecological Garden

F-8 Fate of Salamanders in the Anthropocene (Discussion Symposium) *Room W-601*

Facilitators

- Moderator: Mary Beth Kolozsvary, Siena College, mkolozsvary@siena.edu
- Ryan Kearney, Gettysburg College
- Meredith Atwood, Yale University, School of Forestry and Environmental Studies, atwood.meredith@gmail.com
- Ellen Pehek, New York City Department of Parks and Recreation, sternotherus@earthlink.net
- Amber Pitt, Bloomsburg University, Department of Biological and Allied Health Sciences, apitt@bloomu.edu
- Michael Rubbo, Teatown Lake Reservation, mrubbo@teatown.org
- Invited Artist: Brandon Ballengée, Visiting Scientist, Redpath Museum, McGill University

F-9 Climate Strategies *Room W-602*

Presenters

- Chair: Devin Judge-Lord, devin.jl@gmail.com
- Julia Flagg, Rutgers University, julia.flagg@rutgers.edu
 Understanding the Role of State Power in National Climate Change Mitigation Efforts
- Sarah C. Morton, smorton@chatham.edu; Eric J.
 Werner, erwern@gmail.com; Michael Finewood,
 mfinewood@chatham.edu, Chatham University
 Land Stewardship and Climate Change Adaptation
 Strategies for Small-Scale Farmers

F-10 Planning I Room W-623

Presenters

- Chair: Rob Alexander, James Madison University, alexanrw@jmu.edu
 The Symbolic Convergence of "Place": Forming
 Transdisciplinary Groups for Sustainable
 Development Design
- Kirsten Kinzer, University of Pennsylvania, kkinzer@design.upenn.edu
 Activating Community-Based Sustainability Plan Implementation: A Comparative Case Study

F-11 Politics of Fossil Fuels *Room W-605*

Presenters

- Chair: Amber Szalanski, University of Central Florida, aszalanski@knights.ucf.edu
- Colin Jerolmack, NYU, jerolmack@nyu.edu
 Please in My Backyard: Perceptions of Risk, Reward,
 and Inequality in Central Pennsylvania's 'Gas Rush'
- John C. Berg, Suffolk University, jberg@suffolk.edu
 Leave It in the Ground: Science, Politics, and the
 Movement To End Coal Use

F-12 Community Forest Governance in a Globalizing World: Opportunities and Challenges in Rural Africa Room W-604

Presenters

- Chair: Travis Reynolds, Colby College, twreynol@colby.edu
 Does Third-Party Certification Change International Conservation Practices? An Event History Analysis of Environmental and Social Goal Attainment in the The International Small Group and Tree Planting Program (TIST) in East Africa
- Marie Abrahams, Colby College, maabraha@colby.edu

- Economic and Environmental Implications of Non-Timber Forest Products: A Study of Shea (Vitellaria paradoxa ssp. nilotica) in Gambella, Ethiopia
- Ellen Evangelides and Grey Benjamin, Colby College, eaevange@colby.edu and wgbenjam@colby.edu Landscape-Scale and Community-Scale Analyses of Church Forest Conservation in South Gondar,
- Jacob Wall, Colby College, jawall@colby.edu Competing Preservationist and Utilitarian Perspectives on Church Forests in Amhara, Ethiopia: Evidence from Social and Ecological Surveys

Coffee & Snack Break 10:30am Student Union (B Level West)

The SciArt6 Interactive Performance: Zero Waste Policy Games 🖸 10:40am Student Union (B Level West)

Session G 11:00am - 12:30pm

G-1 Innovative Pedagogies for Environmental **Justice and Community Engagement** Room W-618

Presenters

Curriculum

- Chair: Deborah Rigling Gallagher, Duke University, deb.gallagher@duke.edu University-HBCU Partnerships to Promote Student Engagement in Revitalizing Under Resourced Communities
- Rebecca Vidra, Duke University, vidra@duke.edu University-HBCU Partnerships to Promote Student Engagement in Revitalizing Under Resourced Communities
- Susan Mooney, Stonehill College, smooney@stonehill.edu Climate Change Conversations in the Community
- William Grady Holt, Birmingham Southern College, wholt@bsc.edu Environmental Justice In Jones Valley: Studying Soil Contamination and its Implications Across the

Michael Bryson, Roosevelt University, mbryson@roosevelt.edu Sustainability Studies, Community Development, and Social Justice: Service Learning at an Urban Farm

G-2 Using Place II: Exclusion, Nature/Local, Pedagogy & Community Room W-610

Presenters

- Brandn Green, Bucknell University, bgreen@bucknell.edu Community & Place
- Kristen Van Hooreweghe, SUNY Potsdam, vanhookl@potsdam.edu "You Don't Belong Here:" Defending Place and Creating Environmental Privilege in New York City's Iamaica Bav
- James D. Proctor, Lewis & Clark, iproctor@lclark.edu Replacing Nature in Environmental Studies and Sciences
- Dianne Quigley, Brown University Center for Environmental Studies, and David A. Sonnenfeld, dianne_quigley_1@brown.edu Research Ethics, Cultural Sensitivity and Community-based Research for Place-based Communities

G-3 Colleges and Sustainability Room W-626

Presenters

- Chair: Elizabeth Albert, St. John's University, alberte@stiohns.edu Silent Beaches, Untold Stories: New York City's Forgotten Waterfront, Science and Art Intersect. Ianitina Campus-wide Engagement
- James S. Gruber and Jason Rhoades, Antioch University New England, jgruber@antioch.edu and jrhoades@antioch.edu Enhancing Climate Change Adaptation Partnerships: How can higher education support local communities?
- Thomas R. Hudspeth, UVM Environmental Program, Thomas.Hudspeth@uvm.edu Active Student Engagement In Developing Sustainability Features For LEED-Platinum Renovated Building

G-4 Into the Great Wide Open: Climate **Geoengineering in the Anthropocene?**

(Discussion Symposium) Room W-511

Facilitators

Moderator: Kate O'Neill, University of California-Berkeley, kmoneill@berkelely.edu

- Wil Burns, Johns Hopkins, wburns@jhu.edu
- Simon Nicholson, American University
- Michael MacCracken, The Climate Institute

G-5 Anthropocene as Conjuncture: Philosophical Perspectives on the Emergence of an Epoch Room W-612

Presenters

- Chair: Harlan Morehouse, University of Minnesota, University of Vermont, more0206@umn.edu Stories of Humanity as Monster: Remarks on the Origin(s) of the Anthropocene
- Rory Rowan, Wageningen University, roryrowan@gmail.com
 The Netherlands, Rotten to the Core: Speculative Geophilosophy and Geo-Social Relations
- Stephanie Wakefield, CUNY Graduate Center, stephaniewakefield@gmail.com
 Metaphysical Derangement, Ancient Melancholy?...
 What is the Fundamental Attunement of the Age of the Anthropocene?
- Roy Scranton, Princeton, scranton@princeton.edu A Very Rare Type

G-6 Activists, Agencies, and Corporate Environmental Practices in the Anthropocene Room W-615

Presenters

- Co-Chair: Sara G. Lewis, University of California, Santa Cruz, sblank@ucsc.edu
 Transnational Environmental Performance in an Emerging Regulatory Context: Building New Insights on Public and Private Environmental Regulation
 through the Firm-Level Comparison of Salmon
 Farming Performance
- Co-Chair: Sarah Carvill, University of California, Santa Cruz, scarvill@ucsc.edu
 "Beyond compliance," Beyond Certification:
 Comparing Corporate Environmental Practices in the Redwood Forests of Northern California
- Zdravka Tzankova, University of California, Santa Cruz, tzankova@ucsc.edu
 Surf-n-Turf, but the Sustainable Kind? The Limits and Potential of Market-Driven Regulation in Food Production

G-7 Teaching Strategies II Room W-619

Presenters

 Chair: Rachael L. Shwom, Rutgers University, shwomrac@rci.rutgers.edu
 A Human-Climate Model for Undergraduate Curriculum

- Rebecca L. Jordan, Rutgers University, rebecca.jordan@rutgers.edu
 A Human-Climate Model for Undergraduate Curriculum
- Erica A. Morin, Texas Tech University, ericaamorin@gmail.com Understanding the U.S. Environmental Policy-Making Process through Group Policy Debate Activities in the Classroom
- Ian D. MacKenzie, Dawson College, imackenzie@dawsoncollege.qc.ca
 The Savvy Public Voice: Blogging in an Environmental Literacy Course
- Alex Godoy-Faúndez, Universidad del Desarrollo, alexgodoy@udd.cl
 Sustainability Science and Environmental Education in Engineering Education: The role of video games

G-8 Environment and Justice *Room W-616*

Presenters

- Chair: Leslie Gray, Santa Clara University, lcgray@scu.edu
 Costs and Benefits of Urban Agriculture in San Jose, CA
- Mary Collins, University of Maryland, mbcolli@gmail.com Integrating Environmental Privileges and Problems in the Assessment of Environmental Justice
- Jessica Racine Jacques, University of Central Florida,
 Unsustainable Yield: The Intersecting Oppression of Gender and the Environment in Food Production

G-9 Environmental Humanities *Room W-510*

Presenters

- Chair: Patricia Hackbarth, pathackbarth@earthlink.net
 ESS, the Humanities, and Satellite Images: An Interdisciplinary Study of River Journeys
- Michael V. Perez, perezm2@erau.edu
 Embry-Riddle Aeronautical University, Placing
 Identity: Anthropocenic Selves in the Environmental
 Humanities
- Invited Artist: Mary Miss, studio@marymiss.com Flow (Can You See the River?)

G-10 Planning II Room W-624

Presenters

 Chair: Anne Short, Boston University, agshort@bu.edu

- Forest Conservation and Land Management Along an Urban-to-Rural Gradient: What is Being Done and Who is Benefitting?
- Joanna Wozniak, Antioch University, jwozniak@antioch.edu Planning for Change: How do We Keep Rural Character While the Land Changes Around Us?
- Julie Shapiro, Boston Architectural College, juliana.shapiro@gmail.com Wilderness Experience and Contemporary Landscape Architecture

G-11 Climate Change Around the World Room W-617

Presenters

- Chair: April K. Baptiste, Colgate University, abaptiste@colgate.edu Comparative Vulnerabilities to Climate Change: Case Study of Fishing Community of Old Harbour Bay, Iamaica
- Mohammed Rabbi, Valley Forge Military College, mrabbi@vfmac.edu Impacts of Climate Change in Bangladesh: A Survey on People's Perception
- Eric J. Werner, erwern@gmail.com; Michael Finewood, mfinewood@chatham.edu; and Sarah Morton, smorton@chatham.edu, Chatham University Climate Change Perceptions and Adaptive Strategies among Small-Scale, Sustainable Farmers in Southwestern Pennsylvania

G-12 Students Doing Development Room W-621

Presenters

Chair: Geoffrey Pfeifer, Worcester Polytechnic Institute, gfeifer@wpi.edu Volunteerism or Poverty Tourism: A Plea for the Importance of Development Ethics

- Laureen Elgert, Worcester Polytechnic Institute, lelgert@wpi.edu Community Perspectives on Student 'Voluntourism': Development for whom?
- Derren Rosbach, Worcester Polytechnic Institute, drosbach@wpi.edu Working on Community-Based Sustainable Development Projects: A Transdisciplinary Approach

Closing Keynote and Lunch 12:30pm

Bianco Room (B Level East)

Transforming the Electric Utility Industry and **Corporate Culture**

Karl R. Rábago Executive Director Pace Energy and Climate Center Pace Law School

The electric utility industry is the largest, most capitalintensive, and most polluting industry on the planet. It accounts for one-third of all greenhouse gas (GHGs) emissions and constitutes our best near-term opportunity for reducing human-related GHG emissions. A more sustainable solution involves not industry regulation, but industry transformation—a fundamental shift in the basic electric utility business model first invented in the United States and then spread around the world. This presentation outlines three strategies that could effectuate such a transformation, including value-based rates and services, performance regulation, and more opportunities for third-party technology.

Adjourn 2:00pm

Exhibitors

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Bard College – Bard Center for Environmental Policy | bard.edu/cep
Bullfrog Films | bullfrogfilms.org
Chatham University - Falk School of Sustainability | falk.chatham.edu
CRC Press / Taylor & Francis Group | crcpress.com
The Earth Institute, Columbia University | earthinstitute.columbia.edu
Elementa: Science of the Anthropocene | elementascience.org
Middlebury School of the Environment | middlebury.edu/environment
National Council for Science and the Environment | ncseonline.org
Pace University | pace.edu/environment
Springer Science+Business Media and Journal of Environmental Studies and Sciences (JESS) | springer.com
Ramapo College of New Jersey | ramapo.edu
The MIT Press | mitpress.mit.edu
University Press of Kansas | kansaspress.ku.edu
University of Vermont Environmental Program | uvm.edu/envprog
U.S. Army Medical Recruiting Brigade
Wiley | wiley.com
W.W. Norton & Company | wwnorton.com
Yale University - School of Forestry & Environmental Studies | environment.yale.edu
Panel Artist Exhibition
Student Art Slideshow
What's New & Exciting in Ozone Layer Protection and Climate Change?
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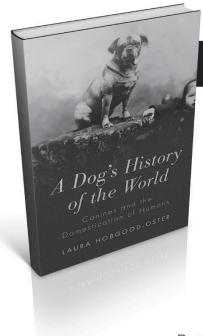
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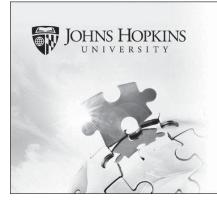
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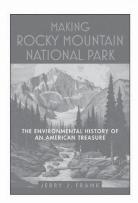
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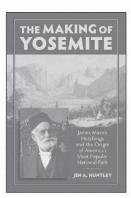
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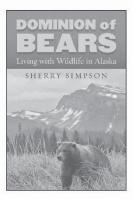
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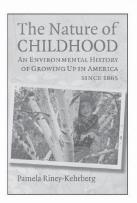
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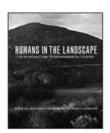
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