

**97th ESA Annual Meeting
August 5-10, 2012
Portland, Oregon**

Sessions on Education, Diversity and Outreach

COS = Contributed Oral Session
SS = Special Session
Symp = Symposia
OOS = Organized Oral Session

OPS = Organized Poster Session
WK = Workshop
FT = Field Trip
PS = Poster Session

SATURDAY, AUGUST 4

Saturday, August 4, 2012: 8:00 AM-5:00 PM

F150, Oregon Convention Center

WK 1 - National Workshop On Public Participation In Scientific Research

In this two-day forum participants will exchange ideas about effective techniques for implementing participatory science projects and achieving education and research outcomes in a variety of disciplines.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8056.html>

SUNDAY, AUGUST 5

Sunday, August 5, 2012: 8:00 AM-5:00 PM

F150, Oregon Convention Center

WK 1 - National Workshop On Public Participation In Scientific Research

In this two-day forum participants will exchange ideas about effective techniques for implementing participatory science projects and achieving education and research outcomes in a variety of disciplines.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8056.html>

Sunday, August 5, 2012: 8:00 AM-11:30 AM

D137, Oregon Convention Center

WK 6 - Advancing Ecological Literacy In Non-Majors, Undergraduate Courses

While there is a list of concepts that most educators would agree all students pursuing careers in ecology should master, there is no such core curriculum for non-majors courses. Instructors of non-majors courses are in a unique position to inspire future engaged citizens. In this Workshop we will explore how to foster ecological literacy in non-majors courses.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7970.html>

Sunday, August 5, 2012: 12:00 PM-5:00 PM

E142, Oregon Convention Center

WK 13 - Welcome to the Climate Adaptation and Mitigation E-Learning (CAMEL) Community

This interactive workshop is for educators who will be teaching about climate change issues either as a component of a course or a full course and for students who want to learn about climate change science and solutions. It introduces the NSF-funded Climate Adaptation and Mitigation E-Learning project.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7936.html>

Sunday, August 5, 2012: 12:00 PM-5:00 PM

E148, Oregon Convention Center

WK 18 - Providing K-12 Teachers with Strategies and Resources for Fostering Environmental Literacy

Get first-hand experience with effective strategies for working with K-12 teachers from the Culturally Relevant Ecology: Learning Progressions and Environmental Literacy Math Science Partnership project. Working with hundreds of teachers and thousands of students at four Long Term Ecological Research sites around the nation, we have constructed learning progressions that describe pathways towards model-based reasoning about key ideas in environmental science.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8453.html>

MONDAY, AUGUST 6

Monday, August 6, 2012: 8:00 PM-10:00 PM

B113, Oregon Convention Center

SS 15 - Civic Ecology: A Pathway for Earth Stewardship In Cities

The purpose of this special session is to engage in a discussion of civic ecology scholarship and practice. We will introduce conceptual frameworks informing civic ecology, including social-ecological systems resilience and conservation psychology, following which local civic ecology practitioners will present case descriptions of their practices. The session will conclude with a discussion of a participatory tool to assess environmental, community, and individual outcomes of local civic ecology practices.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8075.html>

Monday, August 6, 2012: 10:15 AM-11:30 AM

Portland Blrm 251, Oregon Convention Center

SS 1 - Reaching Beyond the Ecology Bubble: How the Ecological Society of America Can Help You Connect with Other Important Groups, From Policymakers to Community Leaders

Join the Society's team of policy and media professionals as well as ecologists experienced in engaging beyond the ecological community to learn how to effectively share ecological information, build professional relationships, and utilize ESA policy and media resources, including its popular blog, podcasts, Graduate Student Policy Award, and more. This session will emphasize the importance of bridging ideological divides to focus on areas of common ground and other strategies to effectively inform policy.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8027.html>

Monday, August 6, 2012: 10:15 AM-11:30 AM

C120, Oregon Convention Center

SS 10 - Sense of Place In the Pacific Northwest: Intergenerational Learning of How Oregon's Tribes Sustained Ecosystems for Millennia

Given that Oregon's tribes have been sustained ecosystems for millennia, the ecological community can benefit from the intergenerational learning of their traditional ecological knowledge, educational philosophies, and environmental ethics in resource management. Members of three of Oregon's tribes will share their sense of place and traditional ecological knowledge and two indigenous students from outside of Oregon will reflect on what they have learned from the elders' experiences.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8454.html>

Monday, August 6, 2012: 10:15 AM-11:30 AM
A107, Oregon Convention Center

SS 12 - Resources for Ecology Education: Fair and Share (REEFS)

This is your chance to share your favorite classroom activity with other ecology faculty and learn about what your colleagues are doing to engage their undergraduate students using student-active methods.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7902.html>

Monday, August 6, 2012: 11:30 AM-1:15 PM
D138, Oregon Convention Center

WK 23 - You Want to Do What? Integrating Scientific Communication Into Large Undergraduate Courses

We invite faculty, postdoctoral fellows and graduate students to join us to examine strategies for integrating oral and written communication into learning goals, activities, and assessments. Based on research about how writing and communication improves students' development as critical thinkers and scientists, participants will examine syllabi, activities and assessments and then adapt them for use in their own courses.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8080.html>

Monday, August 6, 2012: 11:30 AM-1:15 PM
D139, Oregon Convention Center

WK 24 - Creative Multi-Media Approaches to Conservation Education for the Next Generation

The workshop will illustrate the pedagogy underpinning this approach, specifics relative to the effective use of this Internet platform and its case studies in teaching, and approaches for better utilizing this educational resource to better meet the mission of the Ecological Society of America and other conservation-oriented institutions.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8082.html>

Monday, August 6, 2012: 11:30 AM-1:15 PM
F151, Oregon Convention Center

WK 27 - Social Media for Collaboration, Outreach and Impact

In this session, examples demonstrate how social media tools support the growth of open-source and crowd-sourced resources for science, and how smart use of social media can enhance communication and education and build an online community around the pursuit of scientific knowledge. Live demonstrations and training will arm participants with the basic tools and knowledge they need to engage in this productive online community in ways that both improve the quality of scientific research and broaden its impact.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8457.html>

Monday, August 6, 2012: 1:30 PM-5:00 PM
B113, Oregon Convention Center

OOS 2 - Agroecology of Urban Gardens: Contributions to Research and Science Education

The goal of this symposium is to bring together researchers that are finding urban gardens to be unique and interesting study systems for research that contributes directly not only to the need for a better understanding of agroecology in urban settings, but also to broader themes in ecology and science education.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7820.html>

Monday, August 6, 2012: 3:40 PM

A105, Oregon Convention Center

OOS 3- - Public outreach, and awareness to enhance environmental, and public safety in natural gas infrastructure

“Educating the Educators: Pipeline Procedure and Safety Education Program” addressed the need to provide timely, universal access to unbiased/factual pipeline safety education.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Paper33840.html>

Monday, August 6, 2012: 4:40 PM

A105, Oregon Convention Center

OOS 3- - Achieving an accurate public understanding of shale gas impacts: opportunities for scientists and educators

Monday, August 6, 2012: 1:30 PM-5:00 PM

A107, Oregon Convention Center

OOS 6 - Linking Ecological Science and Public Policy: Case Studies In Latin America

This session, derived from discussions in Austin on earth stewardship, provides a series of case studies highlighting the efforts of ecologists, mainly in Latin America, to bridge the science-policy gap and promote public policies that are more effective in the conservation and sustainable use of ecosystems, their biodiversity and the important ecosystem services they provide.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7783.html>

TUESDAY, AUGUST 7

Tuesday, August 7, 2012

Exhibit Hall DE, Oregon Convention Center

OPS 2- NEON education and outreach: Building capacity for using data, engaging communities and participating in citizen science

During year one of construction, NEON (the National Ecological Observatory Network) Education and Public Engagement staff are focused on developing three areas of the educational program, including (1) the first phase of the NEON web portal, (2) an online Citizen Science Academy, and (3) an undergraduate internship program. In addition, we are actively engaging scientific audiences in the early phases of site construction using a variety of tactics including launching an online NEON Community of Practice, celebrating construction activities at NEON sites, and redesigning the NEON web site to provide a window into NEON construction activities.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Paper32947.html>

Tuesday, August 7, 2012: 8:00 AM-11:30 AM

Portland Blrm 253, Oregon Convention Center

SYMP 6 - Human Behaviour and Sustainability: Addressing Barriers to Change

This symposium proposal addresses the conference theme of Preserving, Utilizing and Sustaining our Ecosystems through a coherently integrated series of interdisciplinary research projects. The unifying argument of the symposium is that the primary barriers to sustainability are not a lack of existing knowledge, but socially constructed obstacles hindering our capacity to act on the basis of that knowledge.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7762.html>

Tuesday, August 7, 2012: 9:50 AM
A106, Oregon Convention Center

OOS 8- - Re-visioning environmental learning to sustain communities

This paper highlights the efforts of a diverse group of educators enquiring into the practices of environmental learning as it is enacted in the formal school curriculum. The resulting framework published by the Ministry of Education (2007) aims to assist BC teachers of all subjects and grades to integrate environmental concepts into teaching and learning.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Paper33234.html>

Tuesday, August 7, 2012: 11:30 AM-1:15 PM
C123, Oregon Convention Center

WK 26 - Halting Attrition: Mentoring and Retention of Women and Minority Students

This workshop will focus on specific strategies that women and minority ecologists use to succeed in hopes of fostering the retention of minorities and women in ESA. The discussion will focus on two themes: Becoming a Mentor/Finding a Mentor: strategies for effective mentoring of women and minorities in your institution, and the importance of identifying a mentor of your own. The ultimate goal of this workshop is to share strategies for career success and discuss the importance of mentorship for stemming attrition.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8041.html>

Tuesday, August 7, 2012: 11:30 AM-1:15 PM
F150, Oregon Convention Center

WK 34 - SEEDS Chapter Workshop

This workshop will provide an opportunity for student representatives of SEEDS Chapters to share their accomplishments and for ESA members to learn more about the SEEDS program.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8024.html>

Tuesday, August 7, 2012: 11:30 AM-1:15 PM
B116, Oregon Convention Center

WK 35 - Engaging Arts/Humanities with Long-Term Research and Education Programs: Outcomes, Approaches, Networking

The session will be composed of brief presentation of examples of the work in several media (creative writing, visual arts, performance (dance, theater, song), philosophy), and business models (how to do it and get it funded) followed by open discussion of how to foster new arts/humanities projects at individual sites, enhance existing programs, and to solidify connections between the emerging network of sites (the incipient network is characterized at <http://www.ecologicalreflections.com/>).

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8035.html>

Tuesday, August 7, 2012: 11:30 AM-1:15 PM
E142, Oregon Convention Center

WK 48 - Funding for Ecology From the National Science Foundation: A Discussion with Program Officers

The two purposes of this session are to inform the ecological research community about current opportunities and processes for funding at NSF and to receive comments and suggestions on how the Foundation can best serve the discipline.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8465.html>

Tuesday, August 7, 2012: 1:30 PM-5:00 PM

D136, Oregon Convention Center

OOS 17 - Traditional Ecological Knowledge, Research and Integrated Resource Management: How Culture Sustains Ecosystems

This symposium will bring together tribal scientists, managers and practitioners who will present and share how traditional ecological knowledge (TEK) is being incorporated into research and management.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7830.html>

Tuesday, August 7, 2012: 1:30 PM-5:00 PM

Portland Blrm 252, Oregon Convention Center

SYMP 8 - Revolutionary Ecology: The Role of Diversity In Unleashing Ecology's Potential to Improve Environmental Conditions and Societal Welfare

Building upon our 2010 and 2011 Revolutionary Ecology symposia and associated efforts, we continue to advocate for action ecology, or ecological research that catalyzes social action to improve environmental conditions and societal welfare.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7842.html>

Tuesday, August 7, 2012: 2:30 PM

D136, Oregon Convention Center

OOS 17- - Restoration of a Florida tribal land: Legacy of the Southeastern Lower Mvskogee Creek people

This discussion focuses on the Tribes efforts to ensure cultural competency and building trust relationships and how they have developed with Escambia County , other agencies, and local stakeholders, as well as what the future of this relationship will look like as time passes. Methods focus on printed materials, public outreach, and public conversations with all stakeholders.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Paper33683.html>

Tuesday, August 7, 2012: 4:30 PM-6:30 PM

Exhibit Hall DE, Oregon Convention Center

Education Poster Sessions:

PS 20 - Community-Based Learning

PS 21 - Pedagogy

PS 22 - Research And Assessment

PS 23 - Tools And Technology

Tuesday, August 7, 2012: 6:30 PM-8:00 PM

E146, Oregon Convention Center

ESA Education Section Mixer

Tuesday, August 7, 2012: 8:00 PM-10:00 PM

D137, Oregon Convention Center

WK 38 - Empowering Ecology Outreach to Faith Communities: From Best Practices to a Speaker's Bureau

This workshop will focus on efforts within ESA to develop and empower outreach opportunities to faith communities. We're bringing together partners to launch organized outreach efforts and drawing upon the 2011 survey of ESA members to gather insight to establish an ecologists' speakers bureau for the general public via religious organizations. We'll feature several renowned science communicators from diverse religious traditions giving effective examples.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8078.html>

Tuesday, August 7, 2012: 8:00 PM-10:00 PM

D138, Oregon Convention Center

WK 39 - Submit Your Teaching Resource to ESA's EcoEd Digital Library

This session will provide participants with a hands-on opportunity to submit their own ecology teaching resource to ESA's EcoEd Digital Library (beta).

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7964.html>

WEDNESDAY, AUGUST 8

Wednesday, August 8, 2012

Exhibit Hall DE, Oregon Convention Center

OPS 3- - The California Environmental Legacy Project: A multiplatform educational media project about environmental change

Public understanding of the causes and consequences of environmental change is lacking. At the same time, scientists often do not have sufficient training, pedagogical expertise, and/or media support to effectively communicate with public audiences about complex and multi-scale ecological phenomena. The California Environmental Legacy Project is a collaborative effort among scientists, educators, and media professionals to build a new model of educational media production that will enhance public understanding about environmental change and our relationship to a changing environment.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Paper34422.html>

Wednesday, August 8, 2012: 8:00 AM-11:30 AM

B113, Oregon Convention Center

OOS 27 - Increasing Representation of Minorities In Ecology: What Works?

The symposium will generate awareness of the issues, challenges and opportunities to engage underrepresented minorities and launch an ongoing knowledge sharing of effective interventions.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7633.html>

Wednesday, August 8, 2012: 8:00 AM-11:30 AM

Portland Blrm 252, Oregon Convention Center

SYMP 11 - Translational Ecology: Forging Effective Links Between Knowledge and Action

Preserving, utilizing and sustaining life on earth depends on understanding ecosystem dynamics, and also requires human actions, policy and governance. Most critically, it requires effective conduits of translation between the knowledge generated by scientists and "end users," members of society who are responsible for enacting policies and practices. In 2010, past ESA President William Schlesinger called for a "translational ecology" that would "connect end-users of environmental science to the field research carried out by scientists who study the basis of environmental problems."

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7812.html>

Wednesday, August 8, 2012: 1:30 PM-5:00 PM

Portland Blrm 252, Oregon Convention Center

SYMP 14 - The New Grand Challenge for Ecology: Sustaining Agriculture while Promoting Environmental Justice

This symposium is a joint effort by the Agroecology and Environmental Justice Sections. The membership of our sections recognizes the fact that agriculture, environmental justice, and the preservation, utilization, and sustainability of the planet's ecosystems are intricately linked. This symposium will highlight the role that ecology and ecologists must play in current and future agricultural decision making and practice.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7788.html>

Wednesday, August 8, 2012: 1:30 PM-5:00 PM

A107, Oregon Convention Center

OOS 30 - Building Epistemological Bridges: Indigenous Knowledge-Holders and Western Ecologists Seek to Resolve Philosophical Impasses and Find Common Ground for Collaborative Research In Cross-Cultural Dialogue

Cross-cultural communications between Indigenous knowledge-holders and Western ecologists typically flounders on the Western nature-culture dichotomy. This is not just a philosophical impasse. Cultural misunderstandings can have serious real-life negative consequences for Indigenous peoples.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7769.html>

Wednesday, August 8, 2012: 1:30 PM-5:00 PM

A106, Oregon Convention Center

OOS 33 - Growing Pains: Taking Ecology Into the 21st Century

Ecology has a central role to play in informing environmental policy and building an evidence-driven framework of human involvement in the natural world. If we are going to provide that framework, we need to ask for the resources required to do this well, speak honestly about what we can and cannot expect from our field, and consider what incentives and structures truly serve society. We should focus on maximizing our capacity to contribute actionable knowledge to complex problem sets, and eliminate incentives and structures that are outdated or self-serving.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7618.html>

THURSDAY, AUGUST 9

Thursday, August 9, 2012: 8:00 AM-11:30 AM

A106, Oregon Convention Center

OOS 38 - Modeling to Learn: Using An Authentic Assessment to Evaluate Student Understanding of Science

As a whole, these talks form a direct response to national documents calling for evidenced-based science instruction that promotes scientific literacy by fostering student learning of science content and the process of science. Indeed, evidence is mounting that infusing science (including ecology) instruction with modeling and model-based reasoning promotes student learning in science.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7721.html>

Thursday, August 9, 2012: 8:00 AM-11:30 AM

B110, Oregon Convention Center

OOS 39 - Insights and Innovations From Sustained, Place-Based Collaborations In Arts, Humanities, and Environmental Sciences

The objective of this Session is to inform the ESA community of the powerful and natural fit of sustained arts and humanities work integrated with basic science studies and education, and outreach programs at sites with a long-term commitment to learning about the natural world and our place in it.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7732.html>

Tuesday, August 7, 2012: 9:50 AM

A106, Oregon Convention Center

OOS 8- - Re-visioning environmental learning to sustain communities

Our efforts involved document analysis of frameworks from across North America and around the world. Focus groups and teacher interviews informed a collaborative writing process that involved teachers and academics. These multiple and overlapping perspectives help teachers to facilitate students' varied ideas about the environment. The presentation relates how environmental learning and experience together empower teachers to guide learning in new, exciting ways.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Paper33234.html>

Thursday, August 9, 2012: 11:30 AM-1:15 PM

Portland Blrm 256, Oregon Convention Center

ESA Diversity Luncheon: Generation Z: Past, Present, and Future for ESA's Diversity and Education

Recognizing that the trends in membership numbers and age profiles of the ESA are changing, the Governing Board convened a special committee in 2011 to discuss how ESA can serve the needs of the next generation of ecologists. The presentation at the Diversity Luncheon will share top recommendations submitted to the Governing Board.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8490.html>

Thursday, August 9, 2012: 11:30 AM-1:15 PM

D135, Oregon Convention Center

WK 42 - Arkive.Org: Using Audio-Visuals to Preserve Threatened Life On Earth

This B.Y.O.L. or "Bring Your Own Laptop" session begins with an introduction to ARKive's history followed by a step-by-step guided tour to searching the collection online and a discussion of ways the 90,000+ images and films of threatened species around the world can be used. Additionally, participants will learn how to contribute their work and expertise to ARKive and be given a tutorial exploring ARKive Education, a portal to lesson plans, activities and games promoting conservation education.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8039.html>

Thursday, August 9, 2012: 11:30 AM-1:15 PM
D139, Oregon Convention Center

WK 46 - Vision and Change for Ethnobiological Education: The Open Science Network Approach

The Open Science Network is working to develop peer-reviewed curriculum modules that empower educators and students to learn about science through the medium of ethnobiology. The network seeks to effectively engage students in science through the creative use of common technological tools that promote scientific inquiry.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session8074.html>

Thursday, August 9, 2012: 1:30 PM-5:00 PM
A106, Oregon Convention Center

OOS 46 - From Books to Barcodes: Challenges and Opportunities of Next-Generation Field Guides for Ecologists, Students, and Educators

This interdisciplinary session crosses the boundaries of ecological science, technology, computer science, learning and cognition to explore next-generation field guides and novel tools that ecologists can use to identify organisms from bacteria to big trees.

<http://eco.confex.com/eco/2012/webprogrampreliminary/Session7750.html>