45TH ANNUAL CONFERENCE
Oct. 19-22

13TH ANNUAL RESEARCH SYMPOSIUM
Oct. 18-19

MADISON 2016
FROM INSPIRATION TO IMPACT
### EXHIBIT FAIR: WEDNESDAY 5:00 PM–6:30 PM; THURSDAY 9:00 AM–5:00 PM; FRIDAY 9:00 AM–3:00 PM

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**Check daily schedules (starting on page 46) for detailed information.**
On behalf of the board, staff, and conference planning team, welcome to the 45th Annual NAAEE International Conference. We’re thrilled you could be here and hope that you enjoy everything the conference and Madison have to offer. This year’s theme, From Inspiration to Impact, reflects the power of environmental education to not only inspire and motivate, but also lead to measurable results.

This program is designed to help you navigate the conference and find the workshops, field trips, poster sessions, symposia, keynotes, and other presentations that best meet your needs and interests. You can also view the schedule on our mobile app: Download the “CrowdCompass Directory” on your phone or tablet and then search for NAAEE.

If you have any questions throughout the conference, please see one of the many volunteers, wearing the bright red badger T-shirts, or come to the registration area for personal assistance.

Here are some highlights of the week:

- The opening reception on Wednesday evening, which will include the opening of our Exhibit Fair, the Share Fair, and animal ambassadors from Hoo’s Woods Raptor Center.

- An opening ceremony featuring David Suzuki, an award-winning scientist, environmentalist, and broadcaster

- Our annual Research Symposium, highlighting current research in the field (Tuesday and Wednesday)

- The Exhibit Fair, showcasing new resources and programs in environmental education. We’ll celebrate with a buffet luncheon on Thursday, which will also include the Affiliates’ Welcome, an environmental book sale brought to us by Madison’s A Room of One’s Own Bookstore, the Author’s Corner, and the conference poster presentations

- Plenary sessions with four thought-leaders exploring why EE matters in a world of “wicked” problems (Thursday) and Aimee Nezhukumatathil, an award-winning poet (Friday)
WELCOME

• Networking at eePRO Group brown bag lunch meetings on Friday where you can focus on the issues you care most about

• Our Annual Gala and Auction on Friday evening, overlooking Wisconsin’s capitol from the beautiful rooftop garden of the Monona Terrace Convention Center, which will also celebrate the launch of the Global Environmental Education Partnership (GEEP)

• NAAEE’s annual business meeting on Saturday morning, where you can learn more about the Association and have a chance to provide input

• An inspiring Awards Luncheon on Saturday with a panel of extraordinary young leaders from NAAEE’s new 30 Under 30 program, moderated by marine educator, TV personality, and NAAEE Advisory Council member, Danni Washington

Thank you to everyone who has made this conference possible. We wouldn’t be here without the dedicated work of our wonderful conference chair and the Wisconsin Environmental Education Association; our committee chairs; the NAAEE board, Advisory Council, and staff; our amazing Affiliate network; hundreds of volunteers; our funders; and so many other supporters.

A final thank you goes to all of you for attending—we know it’s a big commitment. We hope you develop long-lasting personal and professional relationships and have a chance to engage in deeper and more meaningful conversations. When you get an inspired and committed group together, magic happens—and we are looking forward to creating that magic together in Madison!

With warm regards from your conference leadership team:

Pepe Marcos-Iga
Board Chair

Judy Braus
Executive Director

Christiane Maertens
Deputy Director

Lori Mann
Conference Manager

Each one of us can make a difference. Together we make change

—Barbara Mikulski


A Warm Welcome from WAEE

On behalf of the Wisconsin Association for Environmental Education Board of Directors and our 300+ members, I would like to welcome you to our great state of Wisconsin. We’re so glad you’re here! It’s an honor for us to host the 45th annual NAAEE conference in our capital city of Madison.

We can’t wait to share with you Wisconsin’s rich history of conservation and environmental stewardship. We hope you’re able to take part in the conference field trip to the famed Aldo Leopold shack where Leopold himself once roamed and, with the Wisconsin River as backdrop, penned the now-famous A Sand County Almanac. Or maybe you’ll get the opportunity to dip your toes in a Great Lake on the Milwaukee canoe trip and immerse yourself in the water-rich environment we cherish here in the Midwest—one which we strive to educate our citizens about as water becomes a much debated shared resource.

Even if you cannot venture out to visit these sites, we know you will have a meaningful experience in Madison. Many EE experts from across the state are scheduled to share their stories, research, expertise, and inspiration with you throughout the conference. Our field of EE champions is as deep as it is wide. You are sure to meet many friendly and knowledgeable Wisconsinites who share your drive and dedication to the field of environmental education. And Madison itself is filled with parks, pathways, piers, and plenty of thoughtful and delicious restaurants in which to spend your spare time.

While Wisconsin recently faced some severe state budget cuts to EE programs and state EE and science positions, your being here is proof that we are still strong. Your participation in this conference speaks volumes to our state leaders and we thank you for “voting” with your presence, and demonstrating that we will continue with vigor to, as Leopold once wrote, “teach the student to see the land, understand what he sees, and enjoy what he understands.”

Here’s hoping you see, understand, and enjoy the beauty of Wisconsin while you’re here!

Betsy Parker
WAEE Board Chair

See pages 121-123 for suggested restaurants and things to do in Madison.
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October 1, 2016

Dear attendees of the North American Association for Environmental Education Conference,

Welcome to Madison! As Mayor, we are thrilled to welcome you to Madison for your 2016 conference. We are in complete support of your conference theme ‘From Inspiration to Impact’. Environmental educators play a hugely important role in our communities by teaching people how to interact and connect with nature and how to create healthier environments that will benefit us today and for generations to come.

While in Madison, I hope you will take time to enjoy our city. Madison’s vibrant downtown, cultural attractions and endless recreational opportunities offer the perfect complement to your conference. From unique shops, amazing restaurants, the State Capital and the University of Wisconsin-Madison, all within a short walking distance, there is something wonderful for everyone to enjoy while in our beautiful city.

On behalf of all Madison residents, businesses and organizations, please accept my warmest welcome and invitation to experience all that is Madison. I am confident your group will experience a memorable stay while in our Capital City. Best wishes for a successful conference!

Sincerely,

[Signature]

Paul R. Soglin
Mayor
THANK YOU

Thank you to the sponsors of our 45th Annual Conference!

GOLD

PLATINUM

SILVER

GREEN

BLUE

IN KIND
Education we need for the world we want.

There has never been a greater need for environmental education—or a greater opportunity. Our country is facing unprecedented environmental, social, and economic challenges—from the world’s changing climate and loss of species and habitats, to declines in civic engagement, decreasing access to nature, and other threats. Environmental education has the potential to transform lives and society by addressing these challenges through helping to create a motivated and committed citizenry. Environmental education informs, inspires, and enlightens. It builds human capacity, influences attitudes, and can lead to action. And most importantly, it can help people make informed decisions about the environment that lead to stewardship and a more sustainable society.
Be the change

For more than four decades, the North American Association for Environmental Education has worked to strengthen and expand the field of environmental education. Our growing network of support includes:

• More than 20,000 members and supporters
• 56 state and regional Affiliate organizations
• 30 countries around the world

Today, as we build on this foundation, NAAEE looks forward to strengthening our core and stimulating new thinking that will best meet the environmental and social challenges of the next decade.

Building a network

Annual Conference: NAAEE has convened an annual conference for environmental education professionals since 1972. Averaging more than 1,000 participants each year, the event is designed to promote innovation, networking, learning, and dissemination of best practices.

Early Childhood EE Alliance: In 2013, NAAEE launched the Natural Start Alliance—a coalition of educators, parents, and organizations focused on linking early childhood education with EE to connect young children with nature and enhance opportunities for creative play and learning.

Strengthening the field

EE Advocacy: NAAEE has helped lead policy and outreach efforts on behalf of the field since its inception. NAAEE sponsors a monthly Action Network Call to highlight key opportunities for people across the country to get involved in local, state, and national issues, from supporting legislation and State Environmental Literacy Plans to strengthening public support for environmental education.

EE Resources: NAAEE’s National Project for Excellence in EE has produced the Guidelines for Excellence series, the most widely accepted guidelines for environmental education around the globe. NAAEE’s newly designed web site, including eePRO, provides up-to-date environmental education research, curriculum guides, monthly webinars, professional development opportunities, and job postings.

Research and Practice: NAAEE and Stanford University are collaborating with university partners to highlight existing peer-reviewed research that demonstrates the impact of EE and helps translate research into practice.

Inspiring innovation

Building STEM Skills: Through a partnership between UL and NAAEE, the UL Innovative Education Award is a first-of-its-kind initiative, investing $250,000 in recognition grants to increase the impact of innovative nonprofit programs that use the environment as a pathway for STEM learning, creating more sustainable communities, and empowering youth.

Broadening the Conversation: With support from the U.S. EPA, NAAEE has collaborated with the Cornell Civic Ecology Lab and others on EECapacity, a project aimed at bringing new voices, innovation, and ideas together to broaden the reach and impact of environmental education.

Connect with NAAEE today and join the movement to create a more sustainable future together.
WELCOME TO MADISON

NAAEE 45TH ANNUAL CONFERENCE & 13TH ANNUAL RESEARCH SYMPOSIUM

OCTOBER 18–22, 2016

WE HOPE YOU ENJOY YOUR STAY!

Discover our digital visitor guide, itinerary ideas, apps, maps and more at visitmadison.com

MADISON GOING > BEYOND > VISIT™
GREATER MADISON CONVENTION & VISITORS BUREAU
Stay connected!

Follow NAAEE on Twitter and get the latest conference updates @NAAEEstaff

Like our Facebook page and stay connected to trending EE information and events!

Follow us on Instagram @NAAEEstaff for photos from the conference. Tag your photos and posts with #NAAEE2016 to see them displayed throughout the conference!

To use the conference mobile app, scan this QR code or download the CrowdCompass Directory from your app store and search for “NAAEE”.

Parks are made by people.
The Thomas Jefferson Memorial is supported by 26 marble columns. And one retired teacher.

Did you know that ... Wisconsin visitors and residents enjoy the state’s 7,446 streams and rivers. End-to-end they’d stretch 26,767 miles—more than enough to circle the globe at the equator.
General Information

Registration & Check-In Hours

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Location:
- Monday & Tuesday: Counter 3 near the convention center entrance
- Wednesday through Saturday: Capitol Promenade Information Station

Information Station

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Have questions about the conference? Volunteers are here to help. The Information Station is located next to the registration counters in the Capitol Promenade.

Auction Items

Please bring auction items to Counter 2, where volunteers will be ready to accept your donation. (If the office is not open, please leave donations at the registration desk.)

Bidding on silent auction items begins on Wednesday evening during the opening reception in the Community Terrace and Capitol Promenade. The live auction will be held and the silent auction will close during the gala on Friday evening.

Audio-Visual Equipment Problems

If presenters experience any audio-visual issues during your sessions, please ask the volunteer room monitor to report it to any NAAEE staff member or the NAAEE office. Any staff member will help connect you with our audio-visual experts as quickly as possible.

Author’s Corner

Authors will be available to sign and sell books during the Exhibit Luncheon on Thursday. See page 40 for more information.

Bicycles

Madison BCycle, Madison’s bike share program, has generously provided passes for one free 30-minute bike rental, available upon request at the Information Station. See NAAEE’s mobile app or madison.bcycle.com/station-map for station locations.

Breakfast & Lunch

Quick breakfast items are expected to be available for purchase at the Grand View Café on the Grand Terrace on Thursday (6:30 AM–10:30 AM), Friday (6:30 AM–1:00 PM), and Saturday (8:00 AM–10:30 AM).

To guarantee quick pick-up for Friday’s eePRO Group brown bag lunch meetings, advance sales of box lunches will be available on Thursday from 9:45 AM to 2:00 PM and on Friday from 9:45 AM to 10:30 AM in the Capitol Promenade. You can redeem prepaid tickets on Friday between 12:15 PM and 1:00 PM.

Coffee Breaks

There will be 30-minute coffee breaks at 10:00 AM on Thursday, Friday, and Saturday mornings on the Grand Terrace.

Community Service Project

Each year, NAAEE participates in a Community Service Project to give back to our host community. See page 23 for details, and sign up to volunteer at the Information Station.

Continuing Education Units and Graduate Credit

NAAEE has partnered with the University of Wisconsin–Stevens Point (UWSP) to offer CEUs or 1 graduate credit for attending the conference and Research Symposium. Applications are available at the Information Station. See page 13 for details.
Exhibit Fair
Wednesday 5:00 PM-6:30 PM
Thursday 9:00 AM-5:00 PM
Friday 9:00 AM-3:00 PM

We’ll celebrate the Exhibit Fair with a full buffet lunch on Thursday from 12:30 PM-2:00 PM in the Grand and Community Terraces. In addition to exploring the wealth of resources that our exhibitors have on display, be sure to visit the conference poster presentations, chat with authors, browse (and buy) the titles at our first environmental book sale, and find out what’s happening with the NAAEE Affiliate in your state or province at the Affiliates’ Welcome.

See page 126 for a list of exhibitors.

Field Trips
If you are registered for a field trip on Wednesday, please meet your host and transportation at the main entrance (level 4) to the Monona Terrace Convention Center. See page 49 for start times.

Jobs and Resumes
You can upload your resume, build your eePROfile, search for jobs, or post job listings on eePRO, NAAEE’s online hub for professional development in EE. Visit NAAEE’s exhibit on the Grand Terrace for more information or a demonstration.

Mobile App
Our conference mobile app allows you to search the conference program, build your own schedule, network with other attendees, and more. Download the CrowdCompass Directory from your app store and search for “NAAEE.” Need support? Ask at the Information Station.

Ticketed Events
These events are included with conference registration with an RSVP. You can add an RSVP or purchase guest tickets at the registration desk until the deadlines noted.

Opening Reception and Ceremony, Wednesday, 5:00 PM-8:30 PM. Includes hors d’oeuvres, exhibits, Share Fair, and David Suzuki keynote. Add by Monday 5:00 PM.

Exhibit Fair Luncheon, Thursday, 12:30 PM-2:00 PM. Includes a full buffet luncheon, exhibits, poster presentations, book sale, Author’s Corner, and the Affiliates’ Welcome. Add by Tuesday at 11:30 AM.

Annual Gala and Stapp Auction, Friday, 7:00 PM-9:30 PM. Includes festive hors d’oeuvres featuring Wisconsin fare, music, and the silent and live auctions. Add by Wednesday at 5:00 PM.

Awards Luncheon and Closing Plenary, Saturday, 12:00 PM-2:30 PM. Includes luncheon, awards ceremony, and 30 Under 30 plenary panel. Add by Thursday at 11:30 AM.

WiFi Access
Free Wi-Fi is available in the Convention Center’s public areas and meeting rooms. Take advantage of the access to send a few tweets using #NAAEE2016 to let folks know what you think of the conference!

Young Professionals
Several special activities are planned for those just entering the environmental education profession. See page 21 for a listing of opportunities to meet new colleagues and further develop relevant skills.

Earn Continuing Education Units (CEUs) or Graduate Credit for Conference Attendance

NAAEE has partnered with the University of Wisconsin-Stevens Point (UWSP) to offer CEUs for attending the conference and Research Symposium. Participants can receive a certificate documenting their continuing education units by completing an application form that verifies session attendance and submitting the form, along with a $30 processing fee, to UWSP Continuing Education and Outreach.

You can pick up an application form at the Information Station. Ten contact hours of professional development equals one CEU.

For more information, contact Dr. Kendra Liddicoat at Kendra.Liddicoat@uwsp.edu.
Concurrent Session Formats

Conference participants will see a wide variety of session types listed in the conference program. The different formats help us maximize the diversity and number of presenters. Session formats vary in length and degree of depth and interaction.

Workshop (full or half day)
Workshops are in-depth sessions that actively develop specific professional competencies and have widespread potential for implementation. Workshops are scheduled on Wednesday, prior to the formal start of the conference. Onsite registration is accepted as space allows; fees apply.

Symposium (90 minutes)
Symposia are panel discussions presenting different perspectives on a topic or question related to one of the focus points for each strand. Panels generally include at least three panelists and a moderator.

Hands-on Presentation (90 minutes)
Hands-on sessions provide participants with an opportunity to engage in teaching activities and interactive discussions about a particular topic.

Traditional Presentation (40 minutes)
Traditional presentations focus on a single topic or program, typically including a talk or media presentation followed by a short discussion.

Roundtable Discussion (40 minutes)
Roundtable discussions emphasize spirited discussion between the presenter(s) and session attendees. Presenters briefly introduce the baseline question they wish to explore, and then open the discussion for input and exchange of ideas. Multiple roundtable discussions occur simultaneously in one large room.

Poster Presentation (40 minutes)
Posters are two-dimensional printed presentations illustrating research studies, programs, or other work. Posters are fixed to bulletin boards for conference participants to review at leisure. In addition, all presenters will be available during the Exhibit Fair Luncheon on Thursday to share their posters, answer questions, and interact with attendees.

Bright Spot (10 minutes)
Bright spots are succinct talks that celebrate specific triumphs and showcase things that work! Each presenter has 10 minutes to highlight important research findings, and successful and innovative family programs, school programs, community partnerships, conservation achievements, and more. Three bright spots, generally related, are presented back-to-back during one 40-minute time block.
Conference Strands

Six cutting-edge thematic strands characterize this year’s conference:

1. **Applying Research to Increase Our Impact**
   Using research to inform how we design, develop, refine, and promote environmental education programs, including methods to engage new and under-represented audiences
   **Strand Leaders:** Justin Hougham and Steve Kerlin

2. **Conservation and Environmental Education**
   Achieving conservation goals through education, communication, social marketing, and ecotourism strategies, including public participation in scientific research (PPSR) and place-based community action
   **Strand Leader:** Michelle Eckman

3. **Educating for Sustainable Communities**
   Creating sustainable and equitable communities through informed partnership building, informed civic engagement and personal decision making, developing sense of place, systems thinking, connecting community and environment, and understanding historical impacts on communities of color
   **Strand Leader:** Jeremy Solin

4. **Green Schools**
   Using environmental education to transform education, enhance student achievement, conserve resources, support national and international education trends, link schools and communities, and build support for environmental education on K-12 campuses
   **Strand Leaders:** Monica Chen and Peggy Cowan

5. **Inspiring Connections to the Outdoors**
   Cultivating partnerships and providing outdoor education experiences that connect people of all ages and backgrounds to nature
   **Strand Leader:** Luise Woelflein

6. **Leadership and Capacity Building**
   Programs, projects, research, and training that build a stronger and more inclusive field and move EE forward in creative and proven ways
   **Strand Leaders:** Dave Chase and Camila Rivera-Tinsley

Finding Sessions of Interest

**Diversity, Equity, and Inclusion**
NAAEE strives to dedicate at least 15 percent of our concurrent sessions within each strand to advancing diversity, equity, and inclusion in EE. These sessions explore ways to strengthen our field through strategies and programs that, among others, help diversify our audiences as well as our workforce, build cultural competence, support environmental justice, engage with new audiences, forge new and lasting partnerships, honor traditional knowledge, and increase our reach and relevance throughout society.

Sessions marked with this icon have been identified using criteria developed by a team from NAAEE’s Diversity and Inclusion eePRO group as helping to meet this goal.

**Keywords**
In the mobile app, sessions are tagged with these keywords to help you find sessions of particular interest:

- Adult education
- Affiliates
- Arts
- Capacity building
- Early childhood
- EECapacity
- Elementary school programs
- Gardening
- International EE
- Middle & high school programs
- NGSS/Common Core
- Spirituality
- STEM
- Traditional knowledge
- Underserved audiences
- Young professionals
NAAEE’s new professional development hub, eePRO, is the online place to be! Through our new site, NAAEE members can connect with people with similar interests and continue the inspiring conversations that get started here at the conference. You can also attend NAAEE’s monthly webinars, and discover new resources, workshops and other training opportunities, the latest research, and much more.

Looking for a job in the field? Visit the NAAEE exhibit for a tour of the eePRO jobs database, where you can upload your resume and build your eePROfile, or post a new job listing.

Or you can check out the new series of tutorials on how to use eePRO to its best advantage, and ask us about eeLEARN, the new online modules currently in development that introduce fundamentals in EE, including a participatory history of the field. Come share your EE story—tell us about the people who influenced you, and the people and events that have shaped the field.
Join the Discussion: eePRO Groups

At the center of eePRO’s group discussion platform are the 16 eePRO Groups—special interest groups created by and for our members and supporters. These forums offer the opportunity to discuss important subjects with experts, peers, budding environmentalists, and more. Enthusiastic moderators keep the discussions active, positive, inclusive, and informative.

Several of the eePRO groups will meet during Friday’s lunch break and—whether you’re a current member or want to develop new networking opportunities—you are encouraged to bring your lunch and join in!

You can also sign up for any of the eePRO groups at the NAAEE exhibit booth.

Brown Bag Lunch Meetings: Friday, 1:00 PM–2:00 PM

Advance sales of box lunches will be available on Thursday from 9:45 AM to 2:00 PM and on Friday from 9:45 AM to 10:30 AM in the Capitol Promenade. Redeem prepaid tickets on Friday between 12:15 PM and 1:00 PM.

- Advocacy Ballroom C, Table 1
- Climate Change Education Hall of Ideas E
- Conservation & Behavior Change Ballroom C, Table 3
- Diversity, Equity, and Inclusion Hall of Ideas F
- Early Childhood Education Hall of Ideas G
- Global EE Hall of Ideas H
- Green Schools Ballroom C, Table 6
- Guidelines for Excellence Ballroom C, Table 8
- Higher Education Hall of Ideas I
- Research & Evaluation Hall of Ideas J
Meetings & Gatherings

Accreditation Advisory Board Business Meeting
Saturday, 8:00 AM-9:00 AM, Wisconsin Room
By invitation.

Affiliate Network Dinner
Tuesday, 5:30 PM, Harvest Restaurant
(21 N. Pickney Street)
Informal networking dinner for Affiliate leaders

Affiliate Network Business Meeting
Thursday, 7:00 AM-8:15 AM, Hall of Ideas E
This meeting is specifically for leaders of state, regional, and provincial EE associations who are Affiliate members of NAAEE. Bring your own breakfast.
Coordinator: Ashley Hoffman

Certification Forum
Friday, 7:15 AM-8:15 AM, Dane Room
Join us for an open, informal discussion about facilitating or developing EE certification programs. Share your challenges and successes and get feedback from other states and provinces. This meeting is by invitation and intended for representatives from states or provinces who are actively facilitating or in the process of developing EE Certification programs.
Coordinator: Katie Navin

Course Gathering: Climate Change Communication for Environmental Educators
Friday, 5:45 PM-6:45 PM, Hall of Ideas G
EECapacity is hosting a meet and greet for students taking the online course, “Climate Change Communication for Environmental Educators.”
Coordinators: Anne Umali Ferguson, Anne Armstrong

Earth Partnership Gathering: Celebrating 25 Years!
Friday, 5:45 PM-6:45 PM, Hall of Ideas F
Join us to share stories, network, and learn from each other. Let’s create a vision for the next 25 years of Earth Partnership!
Coordinator: Cheryl Bauer-Armstrong

Environmental Education Research Breakfast Meeting
Thursday, 7:30 AM-8:15 AM, Dane Room
By invitation.
Coordinator: Alan Reid

EPOC Business Meeting
Thursday, 4:00 PM-5:30 PM, Hall of Ideas J
The EPOC business meeting is open to all EPOC members and potential members. We will build community connections, discuss lessons learned, and identify potential priority areas for the next year. EPOC is a program of the Center for Diversity & the Environment.
Coordinator: Queta Gonzalez

Global Environmental Education Partnership
Welcome & Check-In
Sunday, 7:00 PM-9:00 PM, Madison Concourse Hotel, Senate A
By invitation.

GEEP Meeting
Monday, 8:30 AM-5:00 PM, Hall of Ideas H
By invitation.

GEEP Launch Celebration
Friday, 7:00 PM-9:30PM, Rooftop Garden
Celebrate the launch of the Global Environmental Education Partnership during the annual gala and auction. Included with full conference or Friday registration, but advance sign up is required.

NAAEE 2017: Share Your Ideas!
Saturday, 10:30 AM-11:10 AM, Dane Room
How can we improve on this year? We’d love to hear your thoughts. Come share your ideas and suggestions for our 46th annual conference, scheduled for October 17-21, 2017 in San Juan, Puerto Rico.
Coordinator: Lori Mann

NAAEE Board Meeting
Friday, 9:00 AM-11:00 AM, Wisconsin Room
By invitation.
Coordinators: Pepe Marcos-Iga, Judy Braus

NAAEE Business Meeting
Saturday, 9:20 AM-10:00 AM, Meeting Room KL
Join NAAEE’s board chair, executive director, board, and staff for a discussion on the current state of the organization and future directions for NAAEE. Topics will include strategic planning, a financial report, and your questions. We welcome your input!
Coordinators: Pepe Marcos-Iga, Judy Braus
Southeastern Environmental Education Alliance Meeting  
**Friday, 5:45 PM-6:45 PM, Hall of Ideas H**  
Members of SEEA and other Affiliates in the southeastern United States will meet to discuss current activities.  
Coordinator: Ashley Hoffman

UL Innovative Education Award Meeting  
**Thursday, 8:30 AM-5:00 PM, Wisconsin Room**  
By invitation.  
Coordinators: Christiane Maertens, Chris Hutton

University of Michigan School of Natural Resources & Environment  
**Thursday, 7:00 PM-8:30 PM, Great Dane Pub & Brewing Company (123 E. Doty Street)**  
The University of Michigan’s School of Natural Resources & Environment invites all alumni as well as current and prospective students to a dinner hosted by Professor Michaela Zint at the Great Dane.  
Coordinator: Michaela Zint

U.S. Fish and Wildlife Service Meeting  
**Friday, 12:30 PM-2:00 PM, Wisconsin Room**  
By invitation.  
Coordinator: Drew Burnett

Wisconsin Association for Environmental Education  
**Member Meeting**  
**Friday, 5:45 PM-6:45 PM, Hall of Ideas E**  
All are welcome to attend WAEE’s annual Member Meeting. Find out what the organization has been up to, meet fellow members, or become a new member. There will be prizes and giveaways, along with camaraderie and a review of the annual report.  
A special breakout session for students will be hosted by the Wisconsin Center for EE and this year’s WAEE student members.  
Coordinator: Betsy Parker

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**Did you know that ...**

The best known and most visible legacies of past native peoples at UW-Madison are the earthen burial mounds that are widely scattered across the campus, with several of the most prominent located in the Lakeshore Nature Preserve.
EECapacity at the Conference

How do we strengthen the field of environmental education in a world where more and more people live in cities? How can environmental education contribute to environmental health and the well-being of all communities, including those impacted by poverty and by floods, drought, and other stresses and disasters related to climate change and other factors?

The Expanding Capacity in Environmental Education Project—EECapacity—provides opportunities for EE professionals and volunteers to join in discussions about our environment and our communities, share success stories of where environmental education has made a difference, and learn about successful practices from across the globe. We believe that by providing these opportunities for individuals working in environmental education, youth and community development, resource management, and related fields, we will be able to build on and expand the critical role environmental education plays in fostering healthy environments and communities.

Funded by a cooperative agreement with the U.S. Environmental Protection Agency, EECapacity creates multiple opportunities for people to come together to learn, share, and grow. Our community of learners includes professionals working in nature centers; leaders in community gardening and “friends of parks” organizations; zoo, aquarium, museum, and botanic garden educators; teachers and university faculty; and individuals working in community and faith-based organizations, larger nonprofits, government, and business. What binds us together is our commitment to helping all people—from preschoolers to senior citizens, those living in rural areas, suburbs, and densely populated inner cities, recently returned military veterans and their families, those jobless and those employed, and so many others—experience and steward nature, and work together to create a more sustainable future.

As we wrap up the final year of the project, we’re excited to share what we’ve learned over the last five years. To learn more about EECapacity’s work, we invite you to participate in one or more of these sessions and visit www.eecapacity.net.

Research Symposium
(Registration required)

Tuesday

Professional Networks and Practice Change in Environmental Education
10:45 AM-11:45 AM, Ballroom A

Measuring Practice Change and Social Innovation in EE
1:15 PM-1:45 PM, Room KL

Conference

Tuesday

Capacity Building Summit
8:30 AM-5:00 PM, Ballroom B
By invitation.

Wednesday

EECapacity T3 Professional Learning Community Workshop
8:30 AM-4:30 PM, Hall of Ideas E
By invitation.

Welcoming Diversity and Inclusion
8:30 AM-4:30 PM, Ballroom C
(Fee applies)

Thursday

EECapacity: Resources and Findings from Five Years
8:30 AM-10:00 AM, Lecture Hall

State Environmental Education Certification Programs: Program Goals, Designs, and Outcomes
8:30 AM-10:00 AM, Ballroom D

Guidelines for Excellence—What’s Up Next?
9:20 AM-10:00 AM, Ballroom C

Building Effective Partnerships: EECapacity’s State Capacity Building Project
10:30 AM-11:10 AM, Meeting Room OP

Community Climate Change Fellowship: Mitigation Strategies to Prevent Climate Teaching Burnout
10:30 AM-11:10 AM, Meeting Room MN
An Interactive Poster: Youth Storyboard their Future to Co-Design their Environment
12:30 PM–2:00 PM, Grand Terrace

NAAEE Higher Education Accreditation: How Do You Get It?
2:15 PM-3:45 PM, Hall of Ideas E

Connecting State EE Certification Programs and Environmental Literacy Plans
4:50 PM-5:30 PM, Ballroom C

Online Learning: Lessons from EECapacity
4:50 PM-5:30 PM, Meeting Room KL

Friday

Environmental Education Certification: Why Recertify and the Different Options in Different States
8:30 AM-9:10 AM, Ballroom C

Energy Efficiency to Mitigate Climate Change and Ocean Acidification (EECCOA)
8:30 AM-9:10 AM, Meeting Room MN

Urban Environmental Education: Resources and Lessons from EECapacity
9:20 AM-10:00 AM, Meeting Room MN

Guidelines for Engaging Communities
10:30 AM-11:10 AM, Meeting Room KL

Development of Professional Networks Among Environmental Educators
2:15 PM-2:55 PM, Hall of Fame Room

EECapacity: What Have We Learned About Social Innovation in EE?
2:15 PM-2:55 PM, Hall of Fame Room

Innovation in EE Practice
2:15 PM-2:55 PM, Hall of Fame Room

Two Examples of Student Climate and Sustainability Projects (Ocean and Desert)
3:05 PM-3:45 PM, Meeting Room MN

Course Gathering: Climate Change Communication for Environmental Educators
5:00 PM-6:00 PM, Hall of Ideas I

Surfacing Unheard Voices: Catalyzing Collaborative Writing for Climate Change Education
10:30 AM-12:00 PM, Hall of Ideas E

Dimensions of Communities of Practice Within the EECapacity Project
10:30 AM-11:10 AM, Meeting Room MN

Sessions for Young and Emerging Professionals

Young professionals and others new to the field of environmental education can get to know one another and receive precious insight from mentors who are eager to share their valuable experiences. Going beyond the usual CV writing workshops, these sessions are specially designed by and for young professionals.

Crafting Your Own Elevator Speech: Taking Advantage of First Impressions
Thursday, 3:05 PM-3:45 PM, Meeting Room KL
How well are you answering the question, “What do you do?” Learn how to color your story in the time it takes to get from the ground level to the rooftop terrace. This workshop is geared towards emerging professionals wishing to practice their skills at delivering handcrafted, authentic elevator speeches.

Show Us What You’ve Got: Give Employers a Reason to Google You
Friday, 9:20 AM-10:00 AM, Meeting Room KL
Google yourself. What comes up? Is it your LinkedIn, Facebook, Twitter, or E-portfolio? Learn how to take stock of your professional digital presence. Come prepared with your current resume and be ready to discuss how you utilize digital tools that encourage employers to seek you out.

WAEE Student Networking
Friday, 5:45 PM-6:45 PM, Hall of Ideas E
During this breakout session during the WAEE member meeting, meet fellow students from across the state to better understand your shared passion for environmental education. Find out how you can learn from each other and stay connected throughout the school year.
NAAEE and the Affiliates:  
A Force for Nature

NAAEE’s Affiliate Network is a powerful collective for environmental education and capacity building in the field. The network represents 56 organizations, each affiliated with NAAEE, that work together to support environmental education professionals throughout the United States, Canada, and Mexico. Since the partnership began in 1998, NAAEE and the Affiliates have created a more unified voice for EE on all levels, promoting collaborative learning, professional development, and resource development.

Throughout the conference, a number of sessions focus on strengthening Affiliate organizations, sharing best practices, and building capacity at all levels of the field. Check out these sessions to learn more. Also, check the meeting schedule on page 18 for Affiliate Network meetings.

Affiliate Sessions

Thursday

Moving Environmental Literacy Plans Forward: Where Can Implementation Take You?  
10:30 AM-11:10 AM, Meeting Room KL

Set Your Nonprofit Up for Success! Principles of Nonprofit Management  
2:15 PM-2:55 PM, Meeting Room KL

Fostering and Supporting Emerging Environmental Leadership: Strategies for Affiliates  
3:05 PM-3:45 PM, Ballroom C

Certification 101: You Can Become a Certified Environmental Educator!  
4:00 PM-4:40 PM, Ballroom C

Friday

Staffing Your Affiliate: Are You Ready to Take the Leap?  
9:20 AM-10:00 AM, Ballroom C

Tell Your Story: Marketing and Branding in EE Affiliates  
10:30 AM-11:10 AM, Ballroom C

Group Decision-Making Techniques for Affiliate Boards and Planning Groups  
2:15 PM-3:45 PM, Hall of Ideas E

Saturday

Fundraising for Success: Tips and Tricks for Diversifying Revenues for Your Affiliate  
8:30 AM-9:10 AM, Hall of Ideas J

How to Run a Great(er) State or Regional EE Conference  
9:20 AM-10:00 AM, Ballroom C

Our Journey, Our Destination: Arizona’s Online Environmental Education Certification Course  
10:30 AM-11:10 AM, Meeting Room O

Eliminating Silos and Strengthening Environmental Education Through Regional Collaborations  
11:20 AM-12:00 PM, Meeting Room KL
Community Service Project

Goodman Youth Farm of Community GroundWorks
Friday, 12:45 PM–2:15 PM
Meet outside the front entrance to the Convention Center. Transportation and a box lunch provided.

Each year, NAAEE works with a local organization to organize a community service project through which conference participants can give back in a meaningful way to our host community.

This year, we’ll be helping the Goodman Youth Farm of Community GroundWorks. NAAEE members will join Youth Farm staff and Grow Academy students to help install edible mushroom logs and improve the farm’s outdoor culinary arts area. Student visitors to the Youth Farm will harvest and cook with the edible oyster mushrooms from these logs for up to five years from the date they are installed.

The Goodman Youth Farm, located just three miles east of downtown Madison, has over 3,500 student visits each year. The Youth Farm actively engages students in planting, tending, and harvesting a half-acre vegetable farm, as well as adjoining fruit trees and honeybee hives. Students cook with the produce they grow, and donate extra produce to the Goodman Community Center’s food pantry. The Goodman Youth Farm is a program of Community GroundWorks, a nonprofit that connects people to nature and local food.

Participation is limited to the first 14 people to sign up at the Information Station.

Evaluation Clinic

Third Annual Environmental Education Evaluation Clinic
Friday, 2:15 PM–3:45 PM, Ballroom C

Do you have questions about evaluation or assessment? Bring them to NAAEE’s third annual Evaluation Clinic, where you can ask questions of the experts and contribute your own relevant experience. Learn from evaluation experts as well as peers through informal, roundtable conversations.

Take a walk.

PROUD SUPPORTER OF ENVIRONMENTAL EDUCATION
At Badger Rock Middle School in Madison, students learn about sustainability in the garden and solar energy in the classroom. There is a strong commitment to environmental education throughout Wisconsin. That’s why these organizations and companies provided financial support to the 2016 NAAEE Conference. Learn more: eeinwisconsin.org

United in supporting EE in Wisconsin

Supporting Wisconsin Organizations

Supporting Wisconsin Utilities

ATC

Alliant Energy

MGE

WPPI Energy

Xcel Energy
Wegner CPAs is about people – our clients, our employees, our community. We have been providing sound, professional services in accounting, auditing, and tax to nonprofits for over 60 years, and to over 700 organizations nationwide. A well-respected and well-recognized name within the nonprofit industry, Wegner CPAs provides exceptional services to organizations that support our communities. Visit WEGNERCPAS.COM to learn more about how we can help guide you in achieving your mission.

The National Oceanic and Atmospheric Administration (NOAA) offers many scholarships, internships, fellowships, and post docs for undergraduate and graduate students. To learn more about these opportunities, please visit noaa.gov/students.
This conference wouldn’t have been possible without the dedication of all the people on this list, as well as their employers and families. These amazing volunteers gave generously of their time and talents. There are also hundreds of others, not listed here, who pitched in to help along the way. Thanks to all of you for your hard work and willing spirits. You’ve brought this conference to life!

**Conference Chair**

Betsy Parker  
Board Chair, Wisconsin Association for Environmental Education; Strategic Development Manager and Naturalist, Aldo Leopold Nature Center; Coordinator, Nature Net

**Scholarships**  
Korri Ellis, Chair  
Janet Ady  
Sandi Funke  
Brenna Holzhauer  
Jeanine Huss  
Lori Kiesser  
Nathan Larson  
Martha Monroe  
Donny Roush  
Victoria Rydberg  
Anne Marie Tipton  
Brenda Weiser

**Volunteers**  
Kathy Waldera  
And our incredible team of onsite volunteers

**Voyageur Canoe Race**  
Amy Workman  
Stefan Anderson  
Nancy Saulsbury

**Young Professionals**  
Cassie Bauer  
Carly Swatek

**Conference Proposal reviewers**  
Thank you to 91 colleagues who took the time to diligently review more than 600 proposals submitted for this year’s conference. If you would like to volunteer to review the 2017 proposals, watch for announcements in eeNews, NAAEE’s regular email bulletin. We look forward to working with you to create another outstanding program in San Juan!

**Special thanks to**  
Lynn Karbowski, Administrator, Wisconsin Association for Environmental Education

**Conference Committees**

**Auction**  
Jane Moorman  
Pat Chevis  
Ellen Lewis  
Sam Records  
Gail Roberts

**Awards**  
Brenda Metcalf

**Diversity, Equity, and Inclusion**  
Darryl Ramos-Young  
Melissa Kline  
Amesha Morris  
C. Parker McMullen Bushman

**Exhibits**  
Tom Quinn

**Field Trips**  
Amy Workman  
Tory Bahe  
Brenna Holzhauer

**Research Symposium**  
Ruth Kermish-Allen  
Nicole Ardoin  
Erin Kelly

**Strand Leaders**

- **Applying Research to Increase Our Impact**  
  Justin Hougham  
  Steve Kerlin

- **Conservation and Environmental Education**  
  Michelle Eckman

- **Educating for Sustainable Communities**  
  Jeremy Solin

- **Green Schools**  
  Monica Chen  
  Peggy Cowan

- **Inspiring Connections to the Outdoors**  
  Luise Woelflein

- **Leadership and Capacity Building**  
  Dave Chase  
  Camila Rivera-Tinsley
NAAEE Partners & Supporters

Conference Scholarships

NAAEE is proud to have provided funds to help enable more than 175 professionals and students attend the 2016 conference in Madison.

Our thanks to the following organizations, whose support made this possible.

The Environmental Education Scholarship for Academic Study is awarded to college or university students in each year’s conference host state. Recipients are selected based on their understanding of and commitment to environmental education and their potential for future contributions to the field. This year, NAAEE recognizes Katie Keller, University of Wisconsin–Stevens Point, and Sara Krauskopf, University of Wisconsin–Madison.

The Columbia Sportswear Teacher/Administrator Scholarship recognizes a teacher’s achievement in environmental education in the classroom and the administrator who supported his or her endeavors. This year’s recipients are kindergarten teacher Lesley Zylstra and principal Kevin Robinson of Hawley Environmental School in Milwaukee. For her work as Environmental Implementer at Hawley, Lesley also earned the EPA’s Presidential Innovation Award for Environmental Education.

We are especially grateful to the many conference participants who contribute to scholarships through their Stapp Scholarship Auction purchases and as part of their conference registration.

Cal Water H2O Challenge

NAAEE also joined with the California Water Service to create the Cal Water H2O Challenge, a classroom competition that teaches kids to care for water and empowers them to make a difference through project-based learning.

We are proud to recognize the 2015-2016 grand prizewinner: Rachel Lenix’s 6th grade class at Downtown Elementary School in Bakersfield, CA.

This prize-winning class designed and conducted an experiment to test the impact of greywater versus freshwater on lawns in an effort to reduce water usage. Students built plant boxes for the experiment’s sod, including a freshwater control and three variations using different percentages of greywater in order find the most ideal substitute. They also created brochures and a presentation board to spread conservation awareness in their school and community. The classroom received a $3,500 grant and a wonderful trip to the Santa Monica Mountains with NatureBridge.

For more information, visit challenge.calwater.com
The UL Innovative Education Award

Over the past two years, NAAEE is proud to have teamed with UL to invest in environmental and STEM education, sustainable communities, and youth empowerment by developing the UL Innovative Education Award. By offering recognition grants and support, this major initiative increases the impact of existing innovative nonprofit programs that use the environment as a pathway to STEM learning. Please join UL and NAAEE in congratulating these five extraordinary recipients of this year’s ULIEA awards.

Grand Prize Winner—$100,000 Recognition Grant

NY Sun Works Greenhouse Project

A New York City initiative, NY Sun Works Greenhouse Project uses hydroponic farming technology to educate students and teachers about sustainability science and environmental education. By establishing innovative science labs in public schools in all five of New York City’s boroughs, NY Sun Works helps students learn the science behind sustainable farming and cultivate the engineering and technology skills to design feasible urban agriculture solutions. The program currently operates 29 labs in the city’s public schools, with an aim to build 100 labs by 2020.

Tier Two Winners—$50,000 Recognition Grants

Wild Center’s Adirondack Youth Climate Program

The Adirondack Youth Climate Program is a year-round program that engages youth in climate change initiatives. Emphasizing climate literacy and community action related to climate issues, the program reaches out to underserved high school students and teachers in the rural Adirondack region. The program culminates annually in a youth climate summit with scientists, climate experts, and educators, and the creation of student-driven Climate Action Plans in which youth leaders devise strategies to tackle local impacts of climate change in their communities.

Oceans Learning Partnership’s Coastal Explorers Field School

OLP’s Coastal Explorers Field School uses the ocean as a teaching tool, involving students in hands-on educational programming onboard their floating classroom, at the shoreline, and at onshore laboratories. The program provides opportunities for students in the Newfoundland and Labrador province to explore the marine and coastal environments and contribute to real-world research using scientific tools and oceanographic equipment.

Tier Three Winners—$25,000 Recognition Grants

Chincoteague Bay Field Station’s SPARK (Shore People Advancing Readiness for Knowledge)

SPARK fosters environmental science interactions outside the classroom between parents and children through a scaffolding approach to E-STEM learning. Using science-based solutions to tackle environmental issues that affect the eastern shore region of Accomack County in Virginia, the program serves a diverse community in which participants range in age from 5 to 65 and often involves multiple generations of families learning simultaneously.

Northeast Michigan Great Lakes Stewardship Initiative (NEMIGLSI) of the Community Foundation for Northeast Michigan

NEMIGLSI extends the classroom into the vast woods and waters of Northeast Michigan where youth are valued as community contributors to local, state, and national conservation initiatives. A place-based education network of schools and community partners, this program engages youth in student-driven Great Lakes and natural resource stewardship projects accomplished through applied environmental-STEM experiences.

For more information, visit naaee.org/ulinnovativeeducation
EE 30 Under 30: Young Leaders Making a Difference

NAAEE, in partnership with the U.S. Fish and Wildlife Service, put out a search for the top “EE 30 Under 30” individuals in the U.S., Canada, and Mexico, 30 years of age or younger, who are game changers in their communities.

These young people are taking on leadership positions in making a difference for the planet. They’re engaging their communities, building relationships, and using the power of education to create change. They’re also recognizing the importance of diversity, inclusion, and equity and they’re applying those values to their work. Please join us for the closing panel on Saturday, which features four of these exceptional young people. They will be sharing their accomplishments and stories, as well as giving us advice on how to engage more young people in the future. (See page 32 for more on the closing plenary panel.)

Robert Adragna, 17, Toronto, Ontario
Miranda Andersen, 17, Belcarra, British Columbia
Sophie Bernstein, 16, St. Louis, Missouri
Garrett Blad, 23, Cincinnati, Ohio
Ta’Kaiya Blaney, 15, Duncan, British Columbia
David Chang, 28, New York, New York
Vincent Culliver, 21, San Diego, California
David Flores Gonzalez, 16, Guadalajara, Jalisco
Paola Flores, 22, Oakland, California
Eden Full, 24, New York, New York
Maryam Ghadiri, 30, Lafayette, Indiana
Lauren Gibson, 22, Carmel, Indiana
CJ Goulding, 26, Seattle, Washington
Ana Humphrey, 15, Alexandria, Virginia
Dieuwerźje Kast, 27, Los Angeles, California
Kelsey Leonard, 28, Shinnecock Indian Reservation, New York and Hamilton, Ontario

Yue Li, 29, Ithaca, New York
Sam Little, 28, Baltimore, Maryland
Chloe Maxmin, 24, Nobolboro, Maine
Charles Orgbon III, 20, Atlanta, Georgia
Alfonso Orozco, 25, Laramie, Wyoming
Dejah Powell, 20, Chicago, Illinois
Alissa Sallans, 18, Whitby, Ontario
Jordyn Schara, 21, Madison, Wisconsin
Talia Schmitt, 20, Fairfax, Virginia
Ilya Shmulenson, 30, Austin, Texas
Chloe Smith, 26, Yellowknife, Northwest Territories
Elise Trelegan, 25, Wallops Island, Virginia
Tesicca Truong, 22, Vancouver, British Columbia
Madison Vorva, 21, Ann Arbor, Michigan

This program is made possible by the U.S. Fish and Wildlife Service.

For more information, go to: naaee.org/our-work/programs/ee-30-under-30
Keynote Speakers

The distinguished group of keynote speakers for the 2016 conference includes the author of 52 books, including 19 for children; a recipient of the Global Filipino Award (and ardent fan of the Ohio State Buckeyes); a hiker who wears his tattered Jordan Bred 11 sneakers as a symbolic bridge between two worlds; a cyclist who worked his way from Vermont to Paris (France); and the original Mocha Mermaid. In keeping with our conference theme—From Inspiration to Impact—each of our compelling speakers has helped inspire and empower countless individuals. We’re sure you will find yourselves among them.

Wednesday

David Suzuki
Setting the Bottom Line in the Anthropocene
6:30 PM–8:30 PM, Ballroom AB

David Suzuki, co-founder of the David Suzuki Foundation, is an award-winning geneticist, environmentalist, and broadcaster. He is renowned for his radio and television programs that explain the complexities of the natural sciences in a compelling, easily understood way.

Dr. Suzuki is familiar to audiences around the world as host of the Canadian Broadcasting Corporation’s (CBC) long running television series, The Nature of Things. From 1969 to 2001, he was a faculty member at the University of British Columbia, and is currently professor emeritus. He has authored over 40 books, and is widely recognized as a world leader in sustainable ecology. Suzuki has received numerous awards for his work, including a UNESCO prize for science and a United Nations Environment Programme medal, and is a Companion of the Order of Canada. He has 25 honorary doctorates from universities in the USA, Canada, and Australia. For his support of Canada’s First Nations people, Dr. Suzuki has been honored with six names and formal adoption by two tribes.

Thursday

PLENARY PANEL:
Charlotte Clark, Jan Eriksen, Kartikeya Sarabhai, Julia Washburn
Moderated by Noah Manduke

From Inspiration to Impact: Why EE Matters!
11:30 AM-12:30 PM, Ballroom AB

Join moderator Noah Manduke and a varied quartet of EE experts to discuss their unique perspectives on why EE actually matters in a world of “wicked” problems.

Charlotte Clark is an Assistant Professor of the Practice in Sustainability Education and serves as the Director of Undergraduate Programs at Duke University. Charlotte’s primary interest is the intersection of collective learning and collective action. She studies how environmental education can contribute to management of common pool resources, and how informal learning processes engage with behavior change for individuals and communities around environmental issues. She applies these concepts in work around campus sustainability,
and leads the Education Subcommittee of Duke’s Campus Sustainability Committee. She uses and teaches qualitative research methods, including use of qualitative research software.

Charlotte’s areas of interest include environmental education, free-choice learning, sustainability education, qualitative research methods, collective action, community behavior, responsible environmental behavior, informal learning, and the food/environment intersection.

Prior to completing her PhD, she worked for 5 years as the Director of the Center for Environmental Education in the Nicholas School, and for 12 years doing air pollution regulatory work under contract for the U.S. Environmental Protection Agency.

Jan Eriksen has traveled around the world as president of the Foundation for Environmental Education (FEE) in Denmark, convincing nongovernmental organizations and governments to support sustainable and environmental programmes—and with great success. Today, FEE has 64 member countries. Jan’s work is characterized by great commitment and a burning desire to teach schoolchildren around the world about sustainability, nature and the environment. He has launched several international projects for sustainable education, including Eco-Schools, Green Key, and Blue Flag.

Last year Jan Eriksen celebrated his 25th anniversary at the Danish Outdoor Council where he has been Director since 1990. Jan has a huge interest in creating great outdoor experiences and conveying the joy of nature to others, and during his tenure, the Council has significantly increased the range of outdoor recreational and life-enhancing projects available to the Danish population.

Jan Eriksen has been nominated as Denmark’s candidate for the World Heritage Committee; he is chair of the Danish National Committee of the International Union for Conservation of Nature and Natural Resources (IUCN), Vice President of Keep Denmark Tidy, and a Board Member of Forest and Landscape at Copenhagen University. Previously, Jan Eriksen was a board member of the Danish Ornithological Society and president of Nature & Youth.

Kartikeya V. Sarabhai is the founder and director of India’s Centre for Environment Education (CEE), headquartered in Ahmedabad. He is a member of the United Nations Decade of Education for Sustainable Development Reference Group of UNESCO. He has long been associated with the International Union for Conservation of Nature and Natural Resources (IUCN), and was chair of South and South East Asia IUCN Commission on Education and Communication. He is currently vice-chair of the Indian National Commission of IUCN.

Kartikeya is a member of the Earth Charter International Council. He was a member of the Indian delegation to the United Nations Conference on Environment and Development (UNCED) in Rio in 1992 and the World Summit on Sustainable Development (WSSD) in Johannesburg in 2002, and co-authored India’s report for UNCED. He has been closely associated with communication initiatives of United Nations Environment Programme (UNEP), especially those connected with ozone.

Under Kartikeya’s leadership, CEE organized the first International Conference on the Decade of Education for Sustainable Development in January 2005. He has served on several committees of India’s Ministry of Environment and Forest and Ministry of Human Resource and Development. This includes a committee for greening India’s formal education system and initiatives for biodiversity education. He received the Tree of Learning Award from the World Conservation Union in 1998 in appreciation of his contributions to the field of environmental education and communication. In 2005, the Indian Institute of Human Rights presented Kartikeya with the World Human Rights Promotion Award, and NAAEE recognized him with our Outstanding Service to Environmental Education on the Global Level award.

Julia Washburn serves as the National Park Service (NPS) Associate Director for Interpretation, Education, and Volunteers. She is responsible for NPS public interpretive and educational programming, the Volunteers-In-Parks program, Harpers Ferry Center for Media Services (publications, exhibits, audio-visual production, and historic furnishings), and NPS relationships with cooperating associations—nonprofit organizations that support educational, scientific, historical, and interpretive activities.

She has served as Interpretive Specialist for the NPS Conservation Study Institute at Marsh-Billings-Rockefeller National Historical Park, and Senior Vice President for Grants and Programs at the National Park Foundation, the congressionally chartered, non-profit fundraising partner of the National Park Service. She has also worked as a park ranger and education specialist at six national parks, the NPS National Capital Region Office, and as a science teacher in the U.S. Peace Corps. She holds a master’s degree in museum education from
Bank Street College of Education, and is an adjunct faculty member at George Washington University.

Moderator Noah Manduke is President of Durable Good, a management consultancy focused on helping nonprofit organizations and social enterprises leverage brand-building disciplines to accelerate impact. Durable Good clients include the Skoll Foundation, Capricorn Investment Group, Participant Media, Water for People, Half the Sky Foundation, Social Progress Imperative, St. Jude Children’s Research Hospital, Disney, and many others. Before starting Durable Good, Noah was the Chief Strategy Officer of the Jeff Skoll Group, a portfolio of organizations created by the first President of eBay, Jeff Skoll, to pursue his philanthropic vision of a sustainable world of peace and prosperity. Prior to serving the social sector, Noah spent over 25 years helping businesses to optimize their branding, marketing, and communications practices.

Friday

Aimee Nezhukumatathil

Floating Above this Difficult World: The Importance of Writing the Outdoors with Wonder
11:30 AM-12:30 PM, Ballroom AB

Born to a Filipino mother and Malayali Indian father, Aimee Nezhukumatathil is the author of three books of poetry: Lucky Fish, winner of the Hoffer Grand Prize for Prose and Independent Books; At the Drive-In Volcano; and Miracle Fruit. With Ross Gay, she co-authored Lace & Pyrite, a chapbook of nature poems. She is the poetry editor of Orion magazine and her poems have appeared in the Best American Poetry series, American Poetry Review, New England Review, Poetry, Ploughshares, and Tin House. Awards for her writing include an NEA Fellowship in poetry and the Pushcart Prize. She teaches at The State University of New York at Fredonia, where she was awarded the Chancellor’s Medal of Excellence and named the campus-wide Hagan Young Scholar. In 2016-17, Aimee will be the Grisham Writer-in-Residence at the University of Mississippi’s MFA program in creative writing.

Aimee is also known for her dynamic and joy-filled teaching. Equally at ease in a university or high school classroom, she often serves as a poetry “ambassador,” bringing the delights and joys of reading and writing poetry to classrooms all over the country.

Saturday

PLENARY PANEL

Garrett Blad, CJ Goulding, Kelsey Leonard, Madison Vorva

Moderated by Danni Washington

30 Under 30: Young Leaders Making a Difference
12:00 PM-2:30 PM, Ballroom AB

NAAEE, in partnership with the U.S. Fish and Wildlife Service, put out a search for the top “EE 30 Under 30” individuals in the U.S., Canada, and Mexico, 30 years old or younger, who are game changers in their communities. These young people are taking on leadership positions in making a difference for the planet. They’re engaging their communities, building relationships, and using the power of education to create change. They’re also recognizing the importance of diversity, equity, and inclusion, and applying those values to their work. Four of these exceptional young people will share their accomplishments and stories, as well as giving us advice on how to engage more young people in the future.

This panel is made possible by the U.S. Fish and Wildlife Service.

Garrett Blad, 23, is a climate justice activist, educator, systems thinker and doer, collage artist, and performance poet from (small town you have never heard of) Indiana. He is currently Executive Coordinator of SustainUS, a youth-led organization advancing justice and sustainability by training and empowering young people to engage in advocacy. He works at multiple scales of change-making to build a more just and sustainable world—from the United Nations climate negotiations to his alma mater where he co-launched a fossil fuel divestment campaign. Garrett is committed to using the power of story to build strong relationships and communities to advance social change. He envisions a future where no child in Indiana, or anywhere, fears that the air they breathe, the water from the kitchen tap, or the soil in their front lawn will poison them. All of Garrett’s work seeks to reimagine and reorient our economic, educational, and political systems to facilitate a speedy transition to a
democratic, sustainable, and peaceful world. Garrett has a degree in Environmental Science and Sustainable Policy from the University of Notre Dame.

**CJ Goulding**, 26, first started working outdoors through a college internship with the National Park Service Academy in the Grand Tetons. He’s been passionate about connecting others ever since, leading trips and working with youth-serving organizations in Yellowstone, Seattle, and Washington, DC. Currently, he is the Lead Organizer for the Natural Leaders Network, where his role is to guide training and support for over 200 diverse millennials across the country who are actively creating change and connecting their communities to nature. He recently completed a Master of Arts in Education in Urban Environmental Education in a program that is striving to redefine “environmental education” and understand how urban communities connect to and have control over their environment.

CJ believes that genuinely connecting to people and investing in them is the first step in creating any type of change. He is passionate about leadership, connecting people, places, and ideas, whether it is through the written word, storytelling, or simply facilitating group dynamics and interaction. He also loves reading, playing sports, photography, and the New York Knickerbockers.

**Kelsey Leonard**, 28, currently represents the Shinnecock Indian Nation as the Tribal Co-Lead on the Mid-Atlantic Regional Planning Body of the U.S. National Ocean Council. This planning body consisting of tribal, federal, and state entities is charged with guiding the protection, maintenance, and restoration of America’s oceans and coasts. She has been instrumental in protecting the interests of Tribes with the development of the Mid-Atlantic Ocean Action Plan and building a sustainable ocean future by valuing Indigenous traditional ecological knowledge. Kelsey holds a B.A. in Sociology and Anthropology from Harvard University, an MSc in Water Science, Policy and Management from the University of Oxford, and a JD from Duquesne University. She is an enrolled citizen of the Shinnecock Indian Nation.

**Madison Vorva**, 21, is an environmental analysis major at Pomona College. At 16, she was honored as a United Nations Forest Hero for co-leading Project ORANGS, an 8-year campaign to get the Girl Scouts to source responsible palm oil in their cookies. In response to demands from hundreds of thousands of mobilized consumers, the Girl Scouts announced a palm oil commitment, the first policy change in its 101-year history ever driven directly by girls. Since then, Girl Scout cookie baker Kellogg, and Wilmar (trader of 45% of the world’s palm oil) have adopted deforestation-free policies. Madi’s mission is to show other young people how their everyday actions have global impacts, and to empower girls to lead. She has trained hundreds of students in the U.S. and abroad in the Roots & Shoots Community Mapping model, an impactful service-learning tool. Last spring, Madi took a leave from school to co-host FabLab, a national education TV show on FOX which shows middle school girls how STEM makes a difference. Today, she serves on the Jane Goodall Institute and State Farm Youth Advisory boards.

**Moderator Danni Washington** dreamed of studying the oceans since she was six years old. In 2008, she graduated from the University of Miami Rosenstiel School of Marine & Atmospheric Science with a BSc in Marine Science/Biology. At age 21, she and her mother co-founded Big Blue & You, a nonprofit organization dedicated to inspiring and educating youth about marine conservation through the arts and media. Danni served as an on-camera personality and science filmmaker with Untamed Science, which created over 200 K–12 science educational videos for Pearson Publishing. She hosted Ocean Gems, a multimedia series connecting teens to marine scientist mentors and role models, and co-starred with Jaden Smith in the official educational outreach video for the theatrical film **After Earth**. Danni is currently the host of a new STEM educational TV series called **Xploration Station—Nature Knows Best**, which features the latest advancements in bio-inspired technology and design. She is also a member of NAAEE’s Advisory Council.
National parks can be more than a place. They can be a feeling of inspiration or a sense of community. As America’s best storytellers, our national parks and programs reveal many meanings. From heroes to history, from nature to adventure, a park can be so many things to many different people and communities. As the National Park Service Centennial approaches in 2016, everyone is invited to Find Your Park—there may even be one in your own backyard. Share your story at FindYourPark.com and #FindYourPark.
KEYNOTE PANEL

Crossing Boundaries: The Makings of High-Quality EE Research

This interactive panel will engage challenges of conducting environmental education (EE) research in ways that account for issues of quality in inquiry across an increasingly diverse spectrum of methodologies and methods. In response to questions concerning how EE and EE research can make a difference, panelists will discuss new theoretical and practical research movements related to teaching, learning, pedagogy, and practice. They may question some of the taken-for-granted assumptions and conceptualizations that researchers use to interact with and, perhaps, disrupt traditional thinking. Panel members have been invited to approach challenges to EE research from their own unique perspectives, with the realities of academic demands in mind. Given the complexities of research, as well as demands on researchers, panelists will endeavor to create openings for interactive discussion within the session and also during the course of the symposium.

Chair: Paul Hart, University of Regina
Panelists: Teresa K. Lloro-Bidart, Cal Poly, Pomona; Gregory Lowan-Trudeau, University of Calgary; Phillip Payne, Monash University; Bonnie Shapiro, University of Calgary

Paul Hart, PhD, is a professor of Science and Environmental Education at the University of Regina in Canada, where he teaches graduate and undergraduate courses in these areas. His research interests extend from genealogical roots of teacher thinking and children’s ideas about environment-related education to sociocultural views on learning.

Teresa K. Lloro-Bidart, PhD, is an assistant professor in the Liberal Studies Department at California State Polytechnic University, Pomona. As a feminist political ecologist and multispecies ethnographer, she works in the fields of environmental education, animal studies, and food studies.

Gregory Lowan-Trudeau, PhD, is an assistant professor in the Werklund School of Education at the University of Calgary in Canada. His interests include Indigenous environmental health, education, justice, and activism; renewable energy development in Indigenous communities; Métis languages, histories, and cultures; and interpretive and Indigenous research methodologies.

Phillip Payne, EdD, is an adjunct professor of education at Monash University in Australia. His research interests include research methodology experiments in the social sciences interpreted within environmental, experiential, and outdoor education, with a particular focus on ecoaesthetics-environmental ethics-ecopolitics and critical phenomenology of the moving body (human and other than human) in time-space.

Bonnie Shapiro, PhD, is a faculty professor in the Werklund School of Education at the University of Calgary in Canada. She works with graduate and undergraduate students and engages in research and teaching, learning, and curriculum studies in science, STEM, and environmental education. Her research interests include understanding learners’ experiences in science and environmental education and helping educators explore environmental messages and value in their work.
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Understand how people learn and what inspires people to change. This specialization balances knowledge about the learning process with a solid foundation in environmental sciences and acquisition of effective teaching methodologies and educational designs. Learn the skills of powerful educational approaches and be a leader in nature centers and museums, classrooms, corporations, municipalities, zoos, aquariums, farms, community organizations, botanical gardens, and more.

This has been a profound, transformative journey for me. It’s been an awakening, thanks in large part to your mentorship. I look forward to feeding new passions, embracing opportunities, pushing my growing edges, and nurturing relationships and collaborative partnerships built here.”

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HHMI BioInteractive Short Film Screening

Some Animals Are More Equal than Others
Keystone Species and Trophic Cascades

Thursday, October 20
5:30–6:45 PM
Ballroom AB

Refreshments will be served
Special Events

Wednesday

Opening Reception with Exhibits and Share Fair
5:00 PM–6:30 PM, Grand and Community Terraces

Welcome! Whether this is your first NAAEE conference or your thirty-first, it all starts here! Meet new colleagues and greet returning ones as you enjoy substantial hors d’oeuvres and a cash bar at the opening reception of the conference.

Our annual Exhibit Fair kicks off during the reception—your first opportunity to chat with exhibitors and explore wonderful resources and programs. A variety of nonprofit organizations will also share their inspiring efforts at the tabletop displays comprising this year's Share Fair.

Three ambassadors from Hoo’s Woods Raptor Center—a snowy owl, a spectacled owl, and a peregrine falcon—will be on hand, and NAAEE’s eePRO Group moderators will be explaining how you can get involved in our new online networking platform. And, of course, NAAEE Board and staff members will be there to greet you and answer any questions about NAAEE and the 2016 conference. Come connect with colleagues and begin to foster relationships that we hope will continue far beyond the conference.

Opening Ceremony
6:30 PM–8:30 PM, Ballroom AB

Immediately following the reception, we’ll officially get started with opening remarks from Executive Director Judy Braus and Board Chair Pepe Marcos-Iga.

This year, NAAEE is thrilled to recognize David Suzuki, co-founder of the David Suzuki Foundation, and an award-winning geneticist, environmentalist, and broadcaster. You might know David from hosting the long-running popular science programs Quirks and Quarks, Suzuki on Science, The Nature of Things, and Science Magazine. His television series, A Planet for the Taking, won an award from the United Nations and he is known for creating programs that explain the complexities of science, nature, and the environment in a compelling, easily understood way. David is also recognized as a world leader in sustainable ecology. For his lifetime of work educating people about science and the environment, we will be presenting David with the NAAEE Lifetime Achievement Award for Advancing Environmental Education.

Following the award presentation, David will take the stage with this year’s opening keynote, “Setting the Bottom Line in the Anthropocene.” After his thought-provoking presentation, David has graciously agreed to sign copies of two of his books, The Sacred Balance and Letters to My Grandchildren.
Thursday
Exhibit Fair Luncheon
12:30 PM–2:00 PM, Grand and Community Terraces

The Exhibit Fair will be open from Wednesday evening through Friday afternoon for you to explore innovative programs, dynamic practices, and effective products. And you can help us celebrate by joining us for a great buffet luncheon.

During this special event, you can chat with exhibitors eager to connect you with the latest and greatest in environmental education products and services. It’s a great time to peruse the exhibits, bid on fabulous finds in the silent auction, drop a couple of tickets into a bucket raffle item, and pick up a new book.

The NAAEE Affiliates will also be on hand to welcome you and share information about the many services they offer to their members on the state and provincial levels. Learn how the Affiliates are helping to develop state environmental learning plans, find out which states have environmental educator certification programs, and check out other professional development opportunities in your area. New this year, with thanks to Madison’s popular bookstore, A Room of One’s Own, you can browse (and buy) the best and newest environmentally oriented books at our first book sale. And don’t miss the Authors’ Corner, which features NAAEE members and other writers who are available to discuss, sign, and sell their newest publications. Chat with the authors about writing and publishing for the environmental education field and learn more about their experiences.

Take advantage of this great time for networking and enjoying a good meal—it’s included with your Thursday or full conference registration with RSVP in advance.

Exhibitors are listed on page 126.

Short Film Screening: Some Animals Are More Equal Than Others: Keystone Species and Trophic Cascades
by HHMI BioInteractive
5:30 PM-6:45 PM, Ballroom AB
Join us for a special movie event! Watch HHMI BioInteractive’s newest ecology short film, Some Animals Are More Equal Than Others: Keystone Species and Trophic Cascades. Come before the film to enjoy light hors d’oeuvres and one free drink. Stay after the show for Q&A with HHMI scientist-educators Mark Nielsen and Bridget Conneely.

This event is free, but advance registration is required. Check for available space at the registration desk. See movie advertisement on page 38.

Brewery Bus
7:00 PM-10:30 PM, Meet the bus outside the main entrance to the Monona Terrace Convention Center
What better way to meet new colleagues than to spend your open evening networking over a few beers? Hop on the brewery bus and visit three Madison breweries, selected for their commitments to brewing craft beers using locally sourced ingredients. You’ll visit the Wisconsin Brewing Company, the Old Sugar Distillery, and the Great Dane Pub and Brewing Company. You can purchase a late dinner on your own at the last stop, which is within walking distance of the Convention Center.

Advance registration is required. Tickets can be purchased at the registration desk as space permits.

Look for these writers in the Author’s Corner:

Patty Born-Selly
Tim Grant
Ken Keffer
Marianne Krasny
J. Drew Lanham
Nathan Larson
Martha Monroe
Rick Reynolds
Emily Stone
Angela Vincent
Keith Williams
**Friday**

**Voyageur Canoe Race**

4:00 PM–5:30 PM, Meet along the bike path at the Law Park dock

Celebrate Wisconsin’s legendary voyageur heritage at this living history extravaganza! Whether you’re a paddler or a supportive spectator, this fun competition in voyageur canoes will have you cheering!

Who will win? Make your guess by purchasing a $1 ticket and placing it in the appropriate container at the Information Station. One lucky winner will receive free registration to the 2017 NAAEE conference in Puerto Rico.

The Great Dane Pub and Brewing Company is brewing a special beer just for the NAAEE conference. To partake, purchase your $4 no-waste cup in advance at the registration desk and bring your reusable souvenir cup to the race.

**The canoe races will be run in heats, with the winners announced at the evening gala.**

Our thanks to the Wisconsin Association for Environmental Education for organizing the voyageur canoe race, and to these organizations for supporting this exciting event.

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**Annual Gala and Stapp Scholarship Auction**

7:00 PM-9:30 PM, Monona Terrace Rooftop Garden

Conveniently located just above the convention center, the Monona Terrace Rooftop Garden boasts a stunning 360° view of Madison, including the sparkling waters of Lake Monona and the beautifully illuminated state capitol building. It’s the perfect venue for our annual gala and auction.

Join us for a spirited evening with live music, dancing, locally sourced Wisconsin fare, and time to spend with your friends and colleagues!

We’ll also announce the winners of the afternoon canoe race and draw the winning ticket for one free registration for the 2017 NAAEE conference. And we’ll celebrate the launch of the Global Environmental Education Partnership (GEEP)—an exciting international effort to advance environmental literacy to create a more just and sustainable future through the power of education.

Bid on your favorite items in the always entertaining live auction, and be there to slip in the final bid and snatch up a great variety of treasures as the silent auction concludes.

Every auction purchase helps support scholarships that enable students to attend the conference. The scholarship fund was established in honor of Dr. William Stapp (1930-2001), one of the founders of the field of environmental education. Bill was a huge supporter of NAAEE and introduced many of his students to the association and the conference. Many “Stapplings” have gone on to fill leadership roles in the organization.

This action-packed, fun-filled evening is included with Friday or full conference with RSVP in advance; you’ll need to show your name badge for entry. Additional tickets can be purchased for guests as space allows. Check for details at the registration desk.
**Friday continued**

**NAAEE Annual Auction**

**Live Auction**
*When: During Friday night’s gala*
Bigger ticket and featured items include vacation stays, a handmade cedar canoe box filled with Wisconsin goodies, a Trek bicycle, photographic prints, and more.

**Silent Auction**
*When: Wednesday evening through Friday*
Add your bid to the bid sheets, and keep watch to make sure yours is the final entry! Most items will be up for auction until the Friday night gala, but special sections will close each day.

**Bucket Raffle**
*When: Wednesday through Friday*
Everyone has an equal chance to win! Buy your $1 bucket raffle tickets (12 for $10) from the volunteers at the auction tables. Drop your ticket into the bucket for any item; winning tickets will be drawn at random from all entries.

Or purchase tickets from any NAAEE staff member to enter the REI raffle and win a $1,000 gift card!

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**Saturday**

**NAAEE Awards Luncheon & Closing Panel**
*12:00 PM–2:30 PM, Ballroom AB*

**30 Under 30: Young Leaders Making a Difference**
Garrett Blad, CJ Goulding, Kelsey Leonard, Madison Vorva

*Moderated by Danni Washington*

Help us recognize NAAEE award recipients at the annual Awards Luncheon. We will honor individuals and organizations for their laudable work on behalf of the environment at the local, regional, national, and international levels. The awards ceremony includes presentation of the President’s Award and NAAEE’s highest honor, the Jeske Award.

Following the awards, four exceptional young leaders will share their accomplishments and stories, as well as give us advice on how to engage more young people in the future. Ranging in age from 21 to 28, these speakers are selected from NAAEE’s “EE 30 Under 30,” a new program developed in partnership with the U.S. Fish and Wildlife Service.

These 30 individuals, 30 years of age or younger, embody the conference theme: From Inspiration to Impact. They are game changers in their communities in the U.S., Canada, and Mexico, taking on leadership positions and making a difference for the planet.

This panel is made possible by the U.S. Fish and Wildlife Service.

The Awards Luncheon is included with Saturday or full conference registration with RSVP in advance. Additional tickets can be purchased for guests as space allows. Check for details at the registration desk.
Mornings in Madison 🌅
Get started early with these special early morning opportunities.

Thursday
A Welcome to Our Land from a Ho-Chunk Elder
7:45 AM–8:15 AM, Lakeside Commons

This year’s conference is being held in Madison, Wisconsin, which is on the ancestral land of the Ho-Chunk Nation. To recognize the hospitality of the Ho-Chunk Nation, NAAEE’s board chair will present a gift of traditional kinnikinnik (tobacco) from Mother Earth. Please join us in sharing this special tradition.

Thursday & Friday
Morning Yoga
7:30 AM–8:15 AM, Ballroom D

Start your day off right with an easy to moderate flow that incorporates deep stretching, rejuvenating postures, and an eclectic musical selection with yoga instructor Tara Hostnik. After this class, you’ll feel relaxed, refreshed, and inspired for whatever the conference has in store for you!

Did you know that ...

The state of Wisconsin was named after the Wisconsin River. The word Wisconsin originates from the Miami Indian word Meskonsing, meaning “it lies red,” a reference to the setting of the Wisconsin River as it flows through the reddish sandstone of the Wisconsin Dells.

Friday
Rooftop Ramble and Garden Tour
Friday, 7:30 AM–8:15 AM
Madison Children’s Museum, 100 N. Hamilton Street

Take a VIP tour of the Madison Children’s Museum’s Rooftop Ramble where native plants and edibles grow, chickens forage, and homing pigeons roost. Find out how the museum incorporates environmental education into its everyday practices and programs and take a peek at the myriad ways the museum has reached LEED Gold certification. Meet at the front door to the museum.

Saturday
Community GroundWorks Garden Space on Capitol Square
7:30 AM–8:15 AM, Corner of E. Main Street and S. Pinckney Street on the Capitol Square

The Capitol grounds are famous for their beautiful gardens and plantings, so when Community GroundWorks added a vegetable garden to the mix in 2010, people took note. Visit and learn about the 10-foot circle garden that supplies food for the local food pantry, and help the Community GroundWorks’ garden curator put the garden to bed for the fall.

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Sunday & Monday

Sunday 7:00 PM

Global Environmental Education Partnership
Welcome & Check-In
7:00 PM–9:00 PM, Madison Concourse Hotel,
Senate Room A
By invitation.

Monday 8:30 AM

Global Environmental Education Partnership Meeting
8:30 AM–5:00 PM, Hall of Ideas H
By invitation.

Monday 1:00 PM

Research Symposium Workshop
Place-Based Research: A Field Session
1:00 PM–5:00 PM, University of Wisconsin,
Madison Arboretum

There are many considerations to take into account when contemplating, conducting, and reflecting on research in and about place. During this field session, participants will explore questions of personal experience, historical context, and meaning making in place-based environmental education research. Along with the session leads, we will also be joined by arboretum historian Frank Court, who will discuss the legacy of ecological restoration and tensions between research and practice at the University of Wisconsin Arboretum. We will discuss and use emerging methodologies, such as collaborative arts-based methods, to develop the meaning of our collective experience exploring the arboretum. Join us to explore these tensions and opportunities at the world’s oldest restored tall-grass prairie in fall glory in the place where Aldo Leopold served as the inaugural research director. (Pre-registration required)

Presenters: David Greenwood, Lakehead University;
Marna Hauk, Institute for Earth Regenerative Studies and Prescott College

Monday 6:00 PM

Research Symposium Networking Dinner
6:00 PM–8:30 PM, Great Dane Pub and Brewing Company, 123 E. Doty Street, Madison
Join us for a casual evening of food, fun, and conversation focused on EE research. The group will be dining in the Rathskellar at the popular downtown Great Dane Pub and Brewing Company, which features old stone walls, warm lighting, oak booths, and a beautiful copper-top bar.

Participants must pay for their own dinners at the restaurant. Please bring cash to cover your entree, drinks, sides, and desserts. There is an ATM available at the restaurant. (Pre-registration required)

Did you know that ...

Wisconsin is the dairy capital of the United States and is sometimes called “America's Dairyland.” It has more dairy cows than any other state (1,500,000) and produces more milk than any other state—15% of the country’s milk supply.
Tuesday 8:30 AM

EECapacity Capacity Building Summit
8:30 AM-5:00 PM, Ballroom B
By invitation.

Tuesday 9:00 AM

Research Symposium
9:00 AM-4:00 PM, Ballroom D
NAAEE’s annual Research Symposium brings the academic community together to explore the current state and future directions of environmental education research and to advance the use of practices proven to be effective. Join new and experienced researchers from around the globe to converse on emerging and traditional areas of environmental education research. The 2016 NAAEE Research Symposium facilitates discussion about ongoing research, fosters dialogue about research/community partnerships, and provides opportunities for graduate students to develop the skills needed to become professional researchers. (The Research Symposium requires an additional registration fee.)
Co-Chairs: Ruth Kermish-Allen and Nicole Ardoin

Tuesday 4:00 PM

Research Symposium Reception
4:00 PM-6:00 PM, Ballroom A
For Research Symposium participants only.

Tuesday 6:30 PM

Research Symposium Special Topic Dinner:
Collaborative Tools and Building Blocks
6:30 PM-8:00 PM, Ballroom B
For Research Symposium participants only.

Prescott College
For the Liberal Arts, the Environment, and Social Justice
An Education that MOVES You
Bachelors • Masters • Doctorate
WWW.PRESCOTT.EDU
Wednesday 7:30 AM

Research Symposium Graduate Student & Early Career Breakfast
7:30 AM–9:00 AM, Ballroom D
For Research Symposium participants only.

Wednesday 8:30 AM

Workshops
Note: Workshops require an additional fee. Onsite registration will be accepted as space allows; check at the registration desk. There are full day, morning, and afternoon options. Lunch is included with full day workshops.

Full Day Workshops
8:30 AM–4:30 PM

EECapacity T3 Professional Learning Community Workshop
8:30 AM–4:30 PM, Hall of Ideas E
By invitation.
Presenter(s): Anne Ferguson, Cornell University; Marianne Krasny, Cornell University; Elena Takaki, NAAEE; Brian Hutchison, Cornell University; Bryce DuBois, Cornell University/City University of New York

Facilitating Community Discussion Of Controversial Issues: NAAEE’s Environmental Issues Forums
8:30 AM–4:30 PM, Hall of Ideas F
Climate change, drought, energy, biodiversity... How can we facilitate civic deliberation about controversial issues like these? Kettering Foundation and NAAEE created EIF to help. Learn about EIF, participate in a forum, and learn forum facilitation skills.
Presenter(s): Bora Simmons, National Project for Excellence in Environmental Education; Eric Giordano, University of Wisconsin–Maraton County

The Compass to Teaching in the Outdoor Classroom
8:30 AM–4:30 PM, Hall of Ideas J
Experience the Compass model for teaching in the outdoor classroom and apply it to your own site. Its four points guide instructional practice and include: field journals, naturalists, phenology, and place. Its magnetic force is the sense of wonder. Please dress for the weather. All other materials provided.
Presenter(s): Molly Stoddard, U.S. Fish and Wildlife Service; Mona Davis, Fergus Falls Public Schools

Welcoming Diversity and Inclusion
8:30 AM–4:30 PM, Ballroom C
Join the National Coalition Building Institute for a powerful opportunity to build your skills related to diversity and inclusion: valuing and welcoming similarities and differences; examining the misinformation that impacts our behavior toward others; understanding the role identity plays in leadership; preventing and interrupting bigoted remarks and behaviors; and learning how to be an ally to all groups.
Presenter(s): Cherie Brown, National Coalition Building Institute; Joyce Shabazz, National Coalition Building Institute

Strands

- Applying Research to Increase Our Impact
- Conservation and Environmental Education
- Educating for Sustainable Communities
- Green Schools
- Inspiring Connections to the Outdoors
- Leadership and Capacity Building
- Addresses Diversity, Equity, and Inclusion
Wednesday 8:30 AM

Field Trips

Meet the buses at the convention center front entrance 15 minutes before the stated departure time. Note: Field trips require pre-registration and an additional fee.

Bike Tour de Nature Net: What Does Environmental Education Look Like in Madison?
8:30 AM–4:00 PM

Enjoy a full-day bike tour and see local environmental education in action! Stops include Olbrich Botanical Gardens, Madison Children’s Museum, Henry Vilas Zoo, and the University of Wisconsin–Madison Arboretum, along with some fun highlights around the downtown Madison area. Lunch available for purchase at the Farmers’ Market or food trucks along the way.

Canoe and Hike Milwaukee with the Urban Ecology Center
7:30 AM–4:30 PM

Visit the Urban Ecology Center’s flagship location in Riverside Park and learn about their Neighborhood Environmental Education Project. Hike the deeply forested shores of the Milwaukee River, followed by lunch at a local microbrewery. Then, finish the day with an urban paddle through Milwaukee’s downtown. Bring cash for lunch at Lakefront Brewery.

EE in the 21st Century—Where Nature Meets Technology
8:30 AM–4:30 PM

Enjoy breathtaking views at Devil’s Lake State Park and experience how park naturalists use iPads, bioacoustics, critter cams, and other digital tools to teach about the treasures of the “Midwestern Smokies.” Then, at Aldo Leopold Nature Center, see what happens when high-tech meets high-touch—how interactive technology and mobile learning tools complement learning in the natural environment. Box lunch included.

Sand County Tour
8:30 AM–4:30 PM

Visit the acclaimed “sand counties” of Wisconsin, home to two giants in habitat conservation. At the Aldo Leopold Foundation, immerse yourself in the history and philosophy of Aldo Leopold and tour the famous “Shack” and Legacy Center. At the renowned International Crane Foundation, come face-to-beak with the iconic and graceful birds the Foundation protects. Box lunch included.

Standing tall.

THANK YOU TO OUR AMAZING NETWORK OF VOLUNTEERS!
Wednesday 8:30 AM

Morning Workshops
8:30 AM-12:00 PM

How Does Your State Environmental Literacy Plan Measure Up: Evaluating and Revising ELPs
8:30 AM-12:00 PM, Hall of Ideas H
What does current research say about the development and implementation of state Environmental Literacy Plans, and more importantly, how can we work together to improve our plans? This workshop will feature a short research-based presentation and then break into small working groups. Please bring a paper or digital copy of your state ELP.
Presenter(s): Karena Mary Ruggiero, Earth Day Network; Barry W. Golden, University of Tennessee

Systems Thinking in EE
8:30 AM-12:00 PM, Hall of Ideas G
Systems thinking is a core skill in sustainability and environmental education. This workshop will introduce the ThinkWater systems thinking framework and provide practice in using the framework and resources to understand complex issues and design educational programming. Includes a copy of Systems Thinking Made Simple book.
Presenter(s): Jeremy Solin, University of Wisconsin Cooperative Extension

Teaching the Greatest Challenge of Them All: Climate Change
8:30 AM-12:00 PM, Hall of Ideas I
The presenter will first introduce his “four dimensions of climate change” that enable youth educators to properly frame the issue, and will then introduce a variety of hands-on activities that help young people understand the causes and consequences and take action in their communities. Handouts will be provided.
Presenter(s): Tim Grant, Green Teacher

Wednesday 9:00 AM

Research Symposium continues
9:00 AM-5:00 PM

Wednesday 12:00 PM

Lunch
12:00 PM-1:30 PM, Capitol Promenade
Lunch is included with the Research Symposium and all full day workshops. The meal is self-service and available any time between 12:00 PM and 1:30 PM. (Lunch is not provided with half day workshops.)

Afternoon Workshops
12:00 PM-4:30 PM

Inquiry-Based Ecology Using a Citizen Science Trail Camera Project
12:00 PM-4:30 PM, Madison Hilton Hotel, Founder’s Room
Learn to use free resources to teach ecology and scientific inquiry using data collected from cameras in Gorongosa National Park in Mozambique. Leave with a set of tools to engage your students in environmental science and biology. This workshop includes lunch.
Presenter(s): Bridget Conneely, Howard Hughes Medical Institute; Amanda Briody, Howard Hughes Medical Institute; Amy Fassler, Howard Hughes Medical Institute

Wednesday 1:00 PM

Afternoon Workshops
1:00 PM-4:30 PM

Inspired Conversations to Create and Maintain a Diverse Workforce
1:00 PM-4:30 PM, Hall of Ideas H
Youth Outside has been championing change in environmental education by building the capacity of organizations to have difficult and needed conversations about diversity, equity, and inclusion. Join us to learn about our capacity building programs, and ways to incorporate what we have learned to create a more equitable and inclusive workplace.
Presenter(s): Kim Moore Bailey, Youth Outside; Rena Fidelia Payan, Youth Outside
A relatively simple science conceptual framework can help people understand the causes and impacts of climate change, and also guide strategies to locally increase climate resilience. Participants will engage with place-based climate change educational resources, and explore how to adapt these ideas and resources to their local settings and audiences.

Presenter(s): Art Sussman, WestEd

Wednesday 5:00 PM

Opening Reception with Exhibits and Share Fair
5:00 PM–6:30 PM, Grand Terrace and Community Terrace

Meet new colleagues and greet returning ones as you enjoy substantial hors d’oeuvres and a cash bar at the opening reception of the conference. Our annual Exhibit Fair kicks off during the reception—your first opportunity to chat with exhibitors and explore wonderful resources and programs. A variety of nonprofit organizations will also share their inspiring efforts at the tabletop displays comprising this year’s Share Fair. Three birds from Hoo’s Woods Raptor Center will also be on hand.

See page 39 for more information.

Wednesday 6:30 PM

Conference Opening
6:30 PM–8:30 PM, Ballroom AB

The conference officially begins with opening remarks from Executive Director Judy Braus and Board Chair Pepe Marcos-Iga, presentation of the NAAEE Lifetime Achievement Award for Advancing Environmental Education, and the opening keynote.

Keynote: David Suzuki

See pages 30 and 39 for more information.
Awaken children to the wonders of nature.

Resources to create outdoor classrooms:

- Outdoor Classroom Design Services
- Educator Workshops
- Natural Products

Click or call to receive your free Resource Guide full of inspiration.

natureexplore.org
888.908.8733

Nature Explore is a collaborative program of Arbor Day Foundation and Dimensions Educational Research Foundation, 501(c)3 nonprofit organizations.
Thursday

Early Morning

Affiliate Network Business Meeting
7:00 AM-8:15 AM, Hall of Ideas E
This meeting is specifically for leaders of state, regional, and provincial EE associations who are Affiliate members of NAAEE. Bring your own breakfast.
Coordinator: Ashley Hoffman

Morning Yoga
7:30 AM-8:15 AM, Ballroom D
Start your day off right with an easy to moderate flow that incorporates deep stretching, rejuvenating postures, and an eclectic musical selection with yoga instructor Tara Hostnik. After this class, you’ll feel relaxed, refreshed, and inspired for whatever the conference has in store for you!
Presenter(s): Tara Marie Hostnik, Sequoia Parks Conservancy

Environmental Education Research Breakfast Meeting
7:30 AM-8:15 AM, Dane Room
By invitation.
Coordinator: Alan Reid

A Welcome to Our Land from a Ho-Chunk Elder
7:45 AM-8:15 AM, Lakeside Commons
This year’s conference is being held in Madison, Wisconsin, which is on the ancestral land of the Ho-Chunk Nation. To recognize the hospitality of the Ho-Chunk Nation, NAAEE’s board chair will present a gift of traditional kinnikinnik (tobacco) from Mother Earth.

Thursday 8:30 AM

Meetings
8:30 AM-5:00 PM

UL Meeting
8:30 AM-5:00 PM, Wisconsin Room
Meeting for UL award winners.
Coordinators: Christiane Maertens, NAAEE; Christopher Hutton, NAAEE

Strands

- Applying Research to Increase Our Impact
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- Educating for Sustainable Communities
- Green Schools
- Inspiring Connections to the Outdoors
- Leadership and Capacity Building
- Addresses Diversity, Equity, and Inclusion

The only academic journal devoted to early childhood environmental education is available exclusively from NAAEE. Download your free copy at naaee.org.
Thursday 8:30 AM

The following sessions all start at 8:30 AM. The end times vary with the type of session as indicated. Ninety-minute sessions are listed first, followed by 40-minute sessions.

Symposia
8:30 AM–10:00 AM

EECapacity: Resources and Findings from Five Years
8:30 AM–10:00 AM, Lecture Hall
EECapacity has supported state consortia, online learning, and other venues where environmental education, youth development, and resource management professionals exchange ideas and practices. What innovations and resources have resulted from these exchanges?
Presenter(s): Marianne Krasny, Cornell University; Anne Umali Ferguson, Cornell University; Anne K. Armstrong, Cornell University; Marna Hauk, Institute for Earth Regenerative Studies & Prescott College

State Environmental Education Certification Programs: Program Goals, Designs, and Outcomes
8:30 AM–10:00 AM, Ballroom D
This symposium will provide an overview of how Affiliates and EE agencies have approached EE certification in their states, including the goals of their programs, operational structures, the way candidates become certified, and outcomes. A panel of EE Certification Program leaders will discuss challenges, solutions, and successes.
Presenter(s): Susan McGuire, McGuire Consulting; Katie M. Navin, Colorado Alliance for Environmental Education; Wesley Bullock, Kentucky Environmental Education Council (KEEC); Jennifer Bucheit, Old Woman Creek NERR; Laura Johnson Collard, Maryland Association for Environmental and Outdoor Education; Eileen Everett, Environmental Education Association of New Mexico; Kim Morris-Zarneke, Georgia Aquarium

Hands-On Presentations
8:30 AM–10:00 AM

Beyond Green: Diversifying EE through Personal and Organizational Cultural Competency
8:30 AM–10:00 AM, Hall of Ideas E
Do you believe the environment is everyone’s responsibility to protect and right to enjoy; regardless of race or income? Through a series of exercises and discussions, examine personal and organizational cultural competency and learn how to effectively interact and make connections with those who have a different cultural understanding than you.
Presenter(s): C. Parker McMullen Bushman, Chincoteague Bay Field Station
Strand: ee_capacity

Connecting Kids with the Magic of Nature to Inspire Environmental Stewardship
8:30 AM–10:00 AM, Hall of Ideas F
Disney has long been a champion of nature. Disney Kids and Nature offers unique nature experiences that can be leveraged to enhance the environmental education of children. Partnerships and resources are essential. Participants will learn about resources and engage in a hands-on activity and a meaningful conversation about partnerships.
Presenter(s): Lisa Vazquez, The Walt Disney Company
Strand: ee_capacity

Leveraging the Power of Citizen Science in After School Programs
8:30 AM–10:00 AM, Hall of Ideas G
Grab your smartphone and head outdoors to document biodiversity with the California Academy of Sciences! In this hands-on workshop, explore how Science Action Club uses citizen science and technology to ignite lifelong interest in STEM and foster environmental stewardship among urban afterschool youth.
Presenter(s): Andrew Collins, California Academy of Sciences; Po Bhattacharyya, California Academy of Sciences
Strand: ee_capacity
Moving the Needle: Professional Development Practices That Make an Impact
8:30 AM–10:00 AM, Hall of Ideas H
Effective and impactful professional development programs focus on outcomes, which drive every aspect of design, delivery, and evaluation. To get the most out of this interactive, hands-on session come prepared with an agenda from one of your workshops! This session is for anyone who provides programming for youth or adults.
Presenter(s): Jennifer Pic, Project Learning Tree; Susan Sahnow, Oregon Natural Resources Education Program
Strand:

Traditional Presentations
8:30 AM–9:10 AM

A Practitioner-Researcher Partnership: NatureBridge and Stanford
8:30 AM–9:10 AM, Hall of Ideas J
While field science educators at NatureBridge are busy teaching, research partners can support and inform practice by sharing the latest related research, conducting research-based evaluations, analyzing research findings, and creating and sharing research and evaluation tools. This session highlights recent research projects from the long-standing partnership between NatureBridge and Stanford.
Presenter(s): Lynne Zummo, Stanford University; Indira Phukan, Stanford University; Reed Schneider, NatureBridge
Strand:

Creating Meaningful Impact Through the Green Schools Alliance Community
8:30 AM–9:10 AM, Meeting Room MN
The Green Schools Alliance is an international community of 8,000+ schools, promoting student success and money-saving strategies through a range of programs that foster whole school sustainability. Learn how participating in the GSA Connect Community can help students, school professionals, schools, and districts set sustainability goals and take action.
Presenter(s): Katy Perry, Green Schools Alliance; Arlae Castellanos, Green Schools Alliance
Strand:

Doing Ecological Fieldwork with Students Who Are Deaf/Hard of Hearing
8:30 AM–9:10 AM, Meeting Room R
We discuss our ecological fieldwork with high school students who are deaf/hard of hearing, highlighting our students’ strengths and how our findings provide implications for increasing access in EE. We discuss how practitioners and researchers can work together to build more inclusive places and spaces for all program participants.
Presenter(s): Catherine Matthews, UNCG; Aerin W. Benavides, The University of North Carolina at Greensboro
Strand:

Environmental Education for Everyone: Resources that Engage the General Public
8:30 AM–9:10 AM, Meeting Room KL
The National Environmental Education Foundation (NEEF) seeks to reach mainstream Americans, and expand our focus beyond traditional constituencies, creating strong connections with Americans of all backgrounds. In this session, we highlight programs and resources that help people understand their relationship to the environment and, in turn, increase their environmental engagement.
Presenter(s): Joshua Falk, National Environmental Education Foundation; Jane Chang, National Environmental Education Foundation
Strand:

Inspiring Action and Engagement Through Citizen Science
8:30 AM–9:10 AM, Meeting Room Q
Citizen science gets children outside, observing their environment and exploring its importance first-hand. We’ll share best practices for engaging youth in citizen-science activities that can spark schoolyard investigations and habitat improvement projects. We’ll explore how these achieve STEM and EE goals, especially with underserved youth.
Presenter(s): Kelly Schaeffer, Cornell Lab of Ornithology; Casi Herrera, National Girls Collaborative
Strand:

THURSDAY
Olbrich Botanical Gardens Partners with Local Early Childhood Head Start
8:30 AM–9:10 AM, Hall of Ideas I
Learn how Olbrich Botanical Gardens works with a neighborhood Head Start center to provide free garden-based programming to an underserved early childhood audience, while utilizing current successful programming content and resources. Hear about the planning process, program outcomes, and unexpected challenges. Learn about the future plans for this program.
Presenter(s): Kate Salameh, Olbrich Botanical Gardens

The FAU Pine Jog Fellowship: Addressing Environmental Issues Through Service-Learning
8:30 AM–9:10 AM, Meeting Room OP
The Pine Jog Fellowship Program provides the opportunity for students to investigate and address environmental issues through service-learning projects. This interactive presentation will focus on the mechanics of this program as well as how the program achieves conservation goals through the use of community collaborations and effective educational strategies.
Presenter(s): Anne Henderson, Florida Atlantic University Pine Jog Environmental Education Center; Min Wang, Pine Jog Environmental Education Center

The Roundtable Discussions
8:30 AM–9:10 AM, Ballroom C
Greening Your School, Home, and Community With Project Learning Tree GreenSchools Program
Table 1
Learn about Project Learning Tree’s (PLT) GreenSchools program—a PLT Program that connects Project Learning Tree with service-learning, professional development, and environmental action by inspiring students as leaders in the perpetual quest to reduce their school, home, and community environmental footprint.
Presenter(s): James Riley McGirt, Project Learning Tree; Susan Schuller, University of Wisconsin-Stevens Point

How EE Won The Battle for the New Jersey Meadowlands
Table 2
How does an upstart conservation group protect 8,400 acres of coastal wetlands when they’re coveted by multiple developers who employ armies of attorneys and consultants—and who have the support of elected officials at every level of government? They employ environmental education—AKA the truth—that’s how.
Presenter(s): Hugh M. Carola, Hackensack Riverkeeper

Bright Spots
8:30 AM–9:10 AM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room
1) Building Capacity for Regional Climate Change Education Through a Community-of-Practice
Maryland and Delaware informal educators formed a community-of-practice to enhance their climate change education efforts. Discover how this approach supports their learning and collaboration, and explore community-developed outreach that uses monarchs to talk about climate change, estimates sea-level-rise impacts in marshes, and communicates coastal resilience with camera-enabled drones.
Presenter(s): Cathlyn Styilinski, University of Maryland Center for Environmental Science; Sharon Bowen, The Maryland Zoo in Baltimore; Angela Pease, Maryland Park Service; Lauren Greoski, Anita C. Leight Estuary Center; Coreen E Weilminster, CBNERR-Maryland/ Maryland Department of Natural Resources

2) Meeting Priority Needs in EE: Next Generation Project WILD
Come experience soon-to-be released K–12 activities from Project WILD that address needs for new content in high priority environmental topics and issues. New content focuses on climate change, phenology, pollinators, light pollution, disease, STEM education, stewardship, career development, and non-native species.
Presenter(s): Marc LeFebre, Council for EE/Project WILD

3) ThinkWater: Building a National Movement of Water Thinkers
ThinkWater is a national movement of educators, students, managers, stewards, scientists, and citizens who think and care deeply about water. This session will introduce participants to ThinkWater’s systems thinking framework and free resources.
Presenter(s): Jeremy Solin, University of Wisconsin Cooperative Extension

Roundtable Discussions
8:30 AM–9:10 AM, Ballroom C
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Learn about Project Learning Tree’s (PLT) GreenSchools program—a PLT Program that connects Project Learning Tree with service-learning, professional development, and environmental action by inspiring students as leaders in the perpetual quest to reduce their school, home, and community environmental footprint.
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Presenter(s): Hugh M. Carola, Hackensack Riverkeeper
Thursday 9:20 AM

The following sessions are all 40-minute sessions that start at 9:20 AM and end at 10:00 AM.

**Traditional Presentations**

*9:20 AM-10:00 AM*

**Advocacy 101 for Environmental Education**

*9:20 AM-10:00 AM, Meeting Room KL*

There are currently several federal legislative initiatives that could provide important new funding for environmental education. Effective advocacy to inform the legislative process is how we will secure the future of the field. Environmental education needs everyone to be an advocate; come learn how!  

*Presenter(s): Brock Morris Adler, Consultant; Sarah Bodor, NAAEE*

**Climate Change Education: What Works?**

*9:20 AM-10:00 AM, Meeting Room R*

We conducted a systematic literature review, searching for articles that describe how educators are addressing climate change and what practices seem to be contributing to reported success. Findings from this review could help educators as they design and implement programs on climate change education.  

*Presenter(s): Martha C. Monroe, University of Florida*

**Global Environmental Education Partnership: Sharing Best Practice and Building a Network for EE**

*9:20 AM-10:00 AM, Hall of Ideas J*

The Global Environmental Education Partnership’s (GEEP) mission is to provide a vibrant learning network designed to build capacity in countries around the world to strengthen and institutionalize environmental education, focusing on policy, professional development, evaluation, and best practices. Learn more about this program and how you can get involved.  

*Presenter(s): Ginger Potter, U.S. Environmental Protection Agency; Justin Joseph Harris, U.S. Environmental Protection Agency; Judy A. Braus, NAAEE*

*Strand: ●*
Incorporate Wetland Conservation into School Education in China
9:20 AM–10:00 AM, Meeting Room Q
We will share the process and key principles used in developing WWF China’s wetland education curriculum, especially how to balance the education needs of conservation and education departments.
Presenter(s): Yi Yong, WWF China
Strand:

Rethinking Urban River Revitalization: Health, Equity, and Sustainability in Milwaukee
9:20 AM–10:00 AM, Meeting Room OP
The Kinnickinnic River on Milwaukee’s southside is undergoing a massive $80 million transformation that will result in a healthier river and neighborhood. This underserved Latino community is developing the tools and voice to change where they live, work, and play. See how urban river restoration can improve our community’s health, environmental, and social conditions.
¡Acompañanos!
Presenter(s): Kevin Engstrom, Sixteenth Street Community Health Centers
Strand:

The Science Career Continuum—Growing a Diverse Field of Thinkers
9:20 AM–10:00 AM, Meeting Room MN
The Science Career Continuum at Chicago Botanic Garden, with over two decades of programming, offers a successful model for a continuum of environmental science that provides students of color with a clear and accessible pathway from middle school to college and e-STEM careers. Participants will leave with strategies and tools.
Presenter(s): Amaris Alanis Ribeiro, Chicago Botanic Garden
Strand:

Bright Spots
9:20 AM–10:00 AM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Group A
Hall of Ideas I

1) EE-Based Interpretation Planning for World Heritage Sites
Environmental Interpretation is an innovative strategy for diversifying EE capacity. However, the goal of interpretation for World Heritage Sites in China is tourism rather than environmental education. This study aims to plan an effective and creative interpretation system, so that visitors are conscious of environmental conservation and gradually shape their own environmental perspectives.
Presenter(s): Xue Dong, Beijing Normal University
Strand:

2) Developing a Comprehensive Plan on Environmental Education: The Case of Gyeonggi Province of Korea
This presentation will share the experience of developing a Comprehensive Environmental Education Plan in Gyeonggi province of Korea. Reviewing processes and products of developing the regional EE plan, may lead to discussions on what are the roles of EE in regional contexts and what kinds of implementation systems are requested.
Presenter(s): Chankook Kim, Korea National University of Education
Strand:

3) Returning Home: Tree-Climbing Based Environmental Education Program in Schoolyard
Let’s go tree climbing to know who we are and where we come from! In this experiential learning program, college students had physical, mental, and art activities, and climbed trees cooperatively to enhance their introspections, connectedness with nature, and sense of place in the schoolyard.
Presenter(s): Tzu-Hui Hsu, Graduate Institute of Environmental Education, National Taiwan Normal University
Strand:
Group B
Hall of Fame Room

1) China’s EE Network
China’s EE has been increasing rapidly in recent years. Persons who have studied EE in American universities are leading the trend. However, barriers still exist, including a lack of professional EE researchers. Strengthening academic exchanges between China and the U.S. could be one of the priorities in promoting EE progress in China.
Presenter(s): Ximin Wang, Xishuangbanna Tropical Botanical Garden, CAS
Strand:

2) Conserving Cheetahs with a Global K-12 Collaboration in Conservation Education
Learn about a global collaboration between K-12 students and conservation educators in the USA and Botswana. Educators shared curricula, art, videos, and letters as part of a youth philanthropy initiative. This initiative funded a conservation project in Botswana and exposed students to a diversity of ideas, people, and cultures.
Presenter(s): Lauren Watkins, White Oak Conservation
Strand:

3) Mexico and Germany Learning Together Across Borders
Learning Across Borders is an international cooperation project of the German organization Ökohaus e.V. and the Mexican CICEANA A.C. This project offers an enriching exchange of expert knowledge regarding environmental education methods. We’re celebrating because our project was recognized as one of the Educational Best Practices for the WeltWeitWissen Congress!
Presenter(s): Ileana Alcocer, Centro de Información y Comunicación Ambiental de Norte América A.C. (CICEANA); Edgar Regalado, Centro de Información y Comunicación Ambiental de Norte América A.C. (CICEANA)
Strand:

Roundtable Discussions
9:20 AM-10:00 AM, Ballroom C

Building Leadership Capacity for the Next Generation of Environmental Ambassadors
Table 1
This roundtable will explore leadership capacity-building in teens, volunteers, and young professionals. Discussions will focus on the implementation of successful engagement strategies, identifying and overcoming barriers for learners, and creating sustainability plans to allow for continued growth and innovation in environmental education.
Presenter(s): Renee Birk, John G. Shedd Aquarium
Strand:

Effects of Evaluation Techniques Within an Outdoor Environmental Education Setting
Table 2
In 2015, Trees For Tomorrow transitioned its programming to inquiry-based teaching methods that support NGSS. Educators collaboratively created rubrics in order to assess student journals and teaching practices. Data shows substantial improvement in student learning with these proven evaluative techniques. Come learn how these techniques can benefit your organization!
Presenter(s): Mary Beth Factor, Trees For Tomorrow; Melissa Perry, Trees For Tomorrow
Strand:

Guidelines for Excellence—What’s Up Next?
Table 3
The National Project for Excellence in Environmental Education was initiated by NAAEE in 1994. Come and hear what we’ve been doing recently and what’s up next.
Presenter(s): Bora Simmons, National Project for Excellence in Environmental Education
Strand:

Superintendent’s Environmental Education Collaborative
Table 4
Through new funding in the Every Student Succeeds Act, we have a significant opportunity to strengthen environmental education programs. Upstream Alliance has partnered with Prince George’s County Public Schools, NAAEE, and Project Learning Tree to host the Superintendent’s EE Collaborative, designed to green school systems from the top down.
Presenter(s): Erica Baugh, Upstream Alliance; Don Baugh, Upstream Alliance
Strand:
Talking the Walk

Table 5
Our survey showed people were much more likely to recycle than to encourage recycling. Because “talking the walk” is critical to education and policy change, we want to discuss whether this is a real issue, if it should get more attention, and what resources are available to address it.
Presenter(s): Jan C. Weaver, Missouri Environmental Education Association
Strand:

The Galena Ecology Site: A Place for Wonder

Table 6
The Galena Ecology Site in Alaska provides school programs, community events, and ecological monitoring through a unique partnership between the local school, tribal organizations, and the U.S. Fish and Wildlife Service. Come discuss outside-the-box thinking in building partnerships and get some ideas for your own outdoor programs.
Presenter(s): Karin Bodony, U.S. Fish and Wildlife Service
Strand:

Thursday 10:00 AM

Coffee Break
10:00 AM-10:30 AM, Grand Terrace

Did you know that ...
Devil’s Lake was established in 1911. The facility has become one of Wisconsin’s oldest and most famous state parks. It leads the state parks in attendance.

Thursday 10:30 AM

Traditional Presentations
10:30 AM-11:10 AM

Building Effective Partnerships: EECapacity’s State Capacity Building Project
10:30 AM-11:10 AM, Meeting Room OP
Over the last two years, teams in 10 states have developed model programs for expanding the diversity and reach of EE in their states. These projects have included new partnerships that have inspired innovation, creative pathways, and stronger programs. Program participants will share lessons learned about building effective partnerships.
Presenter(s): Elena Takaki, NAAEE; Members of the ten state teams
Strand:

Citizen Science Demographics: A Case Study on Increasing Diversity
10:30 AM-11:10 AM, Hall of Ideas F
Too often our programs reach only a few demographics in our communities. This presentation explores an attempt by a Washington, DC organization to document the demographics of their current volunteers, in order to expand their diversity. Learn the numbers, learn the gaps, and learn to apply it to your organization.
Presenter(s): Katie Dell, Baltimore County Public Schools
Strand:

Introductory online learning modules on eePRO:
• What is EE?
• History of Environmental Education
• EE Materials
Community Climate Change Fellowship: Mitigation Strategies to Prevent Climate Teaching Burnout
10:30 AM–11:10 AM, Meeting Room MN
Using data collected from a survey of the climate education community, this session will examine the common challenges we face when teaching about climate change and introduce approaches for staying committed and connected with colleagues. Positive strategies used to overcome these obstacles will be the focus of this interactive, discussion-based session.
**Presenter(s):** Jennifer Lynn Hubbard-Sanchez, Kentucky State University; Michelle Eckman, Connecticut Audubon Society; Trevor D. Hance, Laurel Mountain Elementary; Adam Ratner, The Marine Mammal Center; Tara Marie Hostnik, Sequoia Parks Conservancy; Kris Scopinich, Mass Audubon; Marna Hauk, Institute for Earth Regenerative Studies & Prescott College

Creating Research & Evaluation Partnerships with Higher Education: Lessons Learned
10:30 AM–11:10 AM, Meeting Room R
Muddy Sneakers and North Carolina State University have initiated a research and evaluation partnership which could serve as a model for other EE organizations wanting to promote practice that is informed by research. Learn more about how the partnership started, the co-benefits for each entity, and the lessons we have learned.
**Presenter(s):** Rachel Szczytko, North Carolina State University; Kathryn Stevenson, North Carolina State University; Renee Strnad, North Carolina State University

Cultivating a Community Consortium: Nature Net Program
10:30 AM–11:10 AM, Hall of Ideas J
Learn how one Wisconsin consortium is implementing the idea of “a rising tide raises all ships.” See how 16 unique nature centers, parks, and museums are collaborating to increase awareness and encourage environmental education participation among families and educators—and how you can follow this model of success in your community.
**Presenter(s):** Betsy Parker, Nature Net; Virginia Wiggen, Aldo Leopold Nature Center; Cully Shelton, International Crane Foundation; Julie Butler, Madison Children’s Museum; Brenna Holzhauer, Aldo Leopold Nature Center/Nature Net; Kelsey Johnson, Nature Net

E-valuating E-Units: Key Findings and Successful Strategies
10:30 AM–11:10 AM, Hall of Ideas G
This session will provide an overview of the low-cost evaluation strategy employed to conduct research on two online instructional units (E-Units) designed for formal audiences. Participants will learn about some successful (and not-so-successful) methodologies employed and explore the application of this research's key findings to enhance their own EE programming.
**Presenter(s):** Jaclyn Stallard, Project Learning Tree

Every Kid in a Park: Head to the Forest
10:30 AM–11:10 AM, Hall of Ideas E
Every Kid in a Park provides free passes for fourth graders and their families to visit more than 2,000 federally-managed lands and waters nationwide for one whole year. Join us to learn how the Forest Service supports this initiative with events, educational materials, and connections to nature that will last a lifetime.
**Presenter(s):** Barbara McGuinness, USDA Forest Service; Susan M. Cox, USDA Forest Service

Love the Land with Wonder Bugs and Their Adults
10:30 AM–11:10 AM, Meeting Room Q
Want to help foster a love of nature while encouraging adults to take their young children outdoors? Wonder Bugs Preschool Program has the answers for you! Learn the wonders of this program, and discover tips, techniques, and ideas that will hopefully inspire you to start your own successful program.
**Presenter(s):** Tara Von Dollen, Aldo Leopold Nature Center

Moving Environmental Literacy Plans Forward: Where Can Implementation Take You?
10:30 AM–11:10 AM, Meeting Room KL
What does environmental literacy plan implementation look like? Join Colorado and the District of Columbia to discuss successes and challenges in implementation. Learn about projects to strengthen relationships with school districts and build capacity of teacher leaders within individual schools. Share what you have been doing in your state!
**Presenter(s):** Grace Manubay, DC Office of the State Superintendent of Education; Katie M. Navin, Colorado Alliance for Environmental Education
Next Up in Capacity Building: Vertical and Horizontal Alignment for Collective Impact
**10:30 AM–11:10 AM, Ballroom D**

This session will explore our progress as a field and what we might be able to accomplish in our next steps in capacity building by expanding ourselves, our programs, and our networks using tools like systems thinking, contemplative practices, and integral theory mapping.

**Presenter(s):** Abby Ruskey, Consultant; Laura Downey, Kansas Association for Conservation and Environmental Education; Susan L. Carlson, National Council for Science and the Environment

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**Teaching in Nature’s Classroom: Principles of Garden-Based Education**
**10:30 AM–11:10 AM, Hall of Ideas I**

Join us to explore the many positive benefits of garden-based education through engaging stories, vivid photographs, and interactive discussions, songs, and activities. We will discuss guiding principles, best practices, and the growing body of research in support of garden-based education.

**Presenter(s):** Nathan Larson, Community GroundWorks/UW Environmental Design Lab

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**TeenNat—Exposing Diverse Teens to Natural Science Careers Through Conservation Research**
**10:30 AM–11:10 AM, Hall of Ideas H**

How can EE organizations effectively engage diverse teens? What outreach methods work to get folks in the door? What is iNaturalist.org? How have we adapted programming to enhance inclusivity and meet the needs of participants? This traditional presentation will share learnings from a public participation in science program focused on diverse teens in northern California.

**Presenter(s):** Sandi R. Funke, Pepperwood Preserve

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**Bright Spots**
**10:30 AM–11:10 AM**

Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

**Hall of Fame Room**

1) **Environmental Justice: Opportunities in and Beyond the Classroom**

   Not everyone experiences the environment in the same way. Engage students on the inequities that exist within communities by educating explicitly about environmental justice. The health of people and communities is something most everyone can get behind. Educating about environmental justice fosters empathy, entices interest, and creates real community change.

   **Presenter(s):** Angela Vincent, CalRecycle

2) **Increasing Immigrant Integration for Ecological Justice: Culturally-Responsive Place-Based Education**

   Photo elicitation and phenomenological interviewing of refugee children reveal place attachment to their “host” communities. Learn about a culturally responsive, place-based education framework that both honors children’s origins and builds a local sense of place, to increase immigrant integration and empower immigrants’ civic engagement in social and ecological justice.

   **Presenter(s):** Anneliese Mueller Worster, Salem State University

3) **Increasing Urban Adolescent Participation in Outdoor Education**

   New York City Outward Bound Schools provides transformative and rewarding week-long backpacking trips for low-income public school students. Learn how a case study with this organization identified barriers to participation and developed strategies to overcome these barriers through effective leveraging of parents, teachers, and student alumni.

   **Presenter(s):** Julia Oliveira, Museu Paraense Emílio Goeldi
**Roundtable Discussions**  
10:30 AM-11:10 AM, Ballroom C

**Assessing the Lifecourse Development of Environmental Reasoning Skills**  
Table 1  
To more effectively assess environmental literacy, we are creating and piloting a formative, diagnostic assessment of children's and adults' ecological reasoning skills that is designed to support the development of more complex and coherent reasoning about environmental issues and study the relative effectiveness of environmental curricula.  
Presenter(s): Howard Drossman, Colorado College; Shanti Om Gaia, Lectica, Inc.  
Strand: ●

**Just Roots: Cultivating Planetary Citizens Through Food Justice**  
Table 2  
The goal of the Just Roots project is to cultivate planetary citizens through food justice by teaching students how to cook food from regions in conflict. We are working to leverage the art and power of cooking to bring culture, peace, and nourishment to our predominantly Latino community.  
Presenter(s): Nayla Bezares, Escuela Verde; Cynthia Gonzalez, Escuela Verde  
Strand: ●

**Revisiting the “Major and Minor Keys” of Environmental Education, and “Opening up the Chords”**  
Table 3  
The editors of Routledge's new *Major Works of Environmental Education* (2016) discuss key considerations in preparing this 4 volume collection, and the outcomes for the range, focus, and limitations of the material it presents.  
Presenter(s): Alan Reid, Monash University  
Strand: ●

**Sense of Wonder—Nature Journaling**  
Table 4  
Come be inspired to rekindle your sense of wonder by making your own nature journal and learning innovative ways to use that journal. Connections to the Common Core Standards, trade books, and 5E lesson plans will be shared.  
Presenter(s): Molina Walters, Arizona State University; Hilary Goodine, EDUPRIZE–Queen Creek  
Strand: ●

**The Climate Literacy and Energy Awareness Network (CLEAN Network)**  
Table 5  
The CLEAN Network enables educators to learn from a diverse stakeholder community as they work to improve climate change and environmental education, and enable informed decision-making. Learn how you can join this community, develop new partnerships, make use of our resources, and get involved.  
Presenter(s): Kristen Poppleton, Climate Generation: A Will Steger Legacy; Mark Chandler, Columbia University; Art Sussman, WestEd; Jen Kretser, The Wild Center; Karena Mary Ruggiero, Earth Day Network  
Strand: ●  
Affiliate

**U.S. Fish and Wildlife Service Citizen Science Project with Youth**  
Table 6  
Come learn how the U.S. Fish and Wildlife Service’s National Conservation Training Center (NCTC) engaged various youth program participants in a citizen science project during the Summer of 2016. These youth participants assisted NCTC staff in their resource management objective of enhancing and restoring pollinator and monarch habitat.  
Presenter(s): Michelle Donlan, U.S. Fish and Wildlife Service  
Strand: ●

**Us and Mother Earth**  
Table 7  
Should our approach to Mother Earth be a spiritual one? Let’s look at the Red Path.  
Presenter(s): Carlos Velazquez, EENC and Raleigh Parks & Recreation  
Strand: ●

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**Did you know that ...**

The largest wooly mammoth ever excavated, the Hebior mammoth, was found on a Kenosha farm. It’s important not just for its size, but also because of the butchering marks found on it—which count as some of the oldest evidence of human habitation in North America.
Thursday 11:30 AM

**Plenary Panel**
11:30 AM-12:30 PM, Ballroom AB
Charlotte Clark, Jan Eriksen, Kartikeya Sarabhai, Julia Washburn
Moderated by Noah Manduke

**From Inspiration to Impact: Why EE Matters!**
Join moderator Noah Manduke and a varied quartet of EE experts to discuss their unique perspectives on why EE actually matters in a world of "wicked" problems.

See page 30 for more information.

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Thursday 12:30 PM

**Exhibit Fair Luncheon with Affiliates’ Welcome, Author’s Corner, and Environmental Book Sale**
12:30 PM-2:00 PM, Grand Terrace and Community Terrace

Chat with exhibitors, explore new products and services, or pick up a new book in the Author’s Corner or at the book sale presented by Madison’s A Room of One’s Own bookstore. Also learn more about NAAEE’s Affiliates and the many services they offer to their members on the state and provincial level. Luncheon included with Thursday or full conference registration with RSVP in advance.

Exhibitors are listed on page 126. See page 40 for more information.

**Poster Presentations**
12:30 PM-2:00 PM, Community Terrace

1) **A FUN Approach to Nature Education for Families and Kids**
Madison, Wisconsin is a national leader in getting Children in Nature. Part of that success is FUN—Friends of Urban Nature, a coalition of parks, schools, and friends groups that co-sponsor regular opportunities for families and kids to enjoy Nature Recreation and Nature Education in nearby urban natural areas.

**Presenter(s):** Paul Noeldner, FUN Friends of Urban Nature–Madison

**Strand:** ●

2) **A Professional Development Approach to Supporting Child-Adult Interactions in Environmental Education Programs**
Child-adult interactions are at the heart of program quality and can support children in building lifelong connections to nature. Simple Interactions is a professional development model that focuses on strengthening these interactions. We will present one environmental education program’s experience with Simple Interactions and discuss practical considerations for implementation in other programs.

**Presenter(s):** Jennifer Schnakenberg, Pittsburgh Parks Conservancy

**Strand:** ●

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**Did you know that ...**
The first-ever ice cream sundae was served (on a Sunday) in 1881 at Edward C. Berner’s soda fountain in Two Rivers, and it only cost a nickel.
3) An Elementary and Middle School Climate Change Teacher Training—Results
The two-day Mammoth Cave workshop taught climate change to 3rd- through 8th-grade teachers. The three-tiered diagnostic test (AREDiT ) assessed teacher misconceptions about climate change. A t-test showed a significant change in teacher knowledge. A chi-squared test was significant at the p=0.05 and p=0.01 level (p-value=0.004005).
Presenter(s): Jeanine Huss, Western Kentucky University

4) An Interactive Poster: Youth Storyboard their Future to Co-Design their Environment
With felt pens poised and ready, we’ll draw our poster on the spot to demonstrate how youth collaborate with architects and designers to co-design their urban environments. From Vancouver, Canada, we’ve completed projects in Boulder and Los Angeles. In one case study, youth with developmental disabilities co-design their school garden.
Presenter(s): Susan Chung, Co-Design Group

5) BATS! A Comprehensive Outreach Approach to Bat Appreciation and Conservation
Everyone is captivated by bats! Learn about the wonder and value of bats—and leave with free resources and ideas developed by a broad coalition of bat educators and conservationists. From distance learning adventures to nocturnal bioblitzes—become a bat champion in your own community and school.
Presenter(s): Sandy Frost, USDA Forest Service

6) Birds as a Tool to Engage Communities to Get Outdoors
Audubon Rockies Community Naturalists talk about how to use birds as a tool to engage outdoor learning. We will discuss our many citizen science opportunities that revolve around birds including our Christmas Bird Count, MAPS birds banding stations, E-Bird, and more. We will also discuss our partnerships with Cornell, IBP, and Flying Wild.
Presenter(s): Dustin Downey, Audubon Rockies; Jacelyn Downey, Audubon Rockies

7) Bridges and Barriers to Environmental Education on an E.C.O. Campus
In this study we investigated the opportunities and challenges teachers face at an elementary school with an ECO campus. All teachers at the school have access to an outdoor classroom, butterfly garden, amphibian habitat, bird sanctuary, and nature trail. Data collection included surveys, interviews, and observations.
Presenter(s): Amber Adams-Kuebler, Elon University

8) Building Malama ‘Aina: A Participatory Approach to Education and Conservation Action
Biocultural field experiences can offer far-reaching impacts like greater conservation knowledge, deeper personal connections, and inspiration for the future of conservation. Experience the power of participatory learning through hands-on activities, hear from students on building malama ‘aina (love of the land), and learn more about Project Dragonfly and partner programs.
Presenter(s): Jill Korach, Miami University

9) Building Preservice Teachers’ Environmental Concern through Neuroscience
This study used neuroscience technology to investigate preservice teachers’ responses to different images (categorized as green-side nature, brown-side nature, wealthy human-life environment, and poor human-life environment) and their influence on attitudes toward the environment. The results have implications for improving environmental concern in preservice teachers.
Presenter(s): Chin-Fei Huang, Graduate Institute of Science Education & Environmental Education

10) Children’s Health: A Function of the Indoor School Environment—How?
The school environment is significant in a child’s health and well-being. Good indoor air quality (IAQ) is required for a healthy and productive learning environment. This paper provides opportunity for environmental educators and stakeholders to be informed about the factors that contribute to poor IAQ and its health significance.
Presenter(s): Oyewale Mayowa Morakinyo, Tshwane University of Technology, Pretoria
12:30 PM–2:00 PM
Poster Presentations, continued

11) International Environmental Education in China: Two Cases
This session will introduce the situation of international environmental education in China by sharing the cases of Ministry of Environment Protection of China and local NGO Youth Lead. And the opportunities and trends of international environment education in China will also be mentioned.
Presenter(s): Xinchen Wei, Youth Lead
Strand:  

12) COASSTal Collaborations: Building Community & Conservation Through Citizen Science
Coastal Observation & Seabird Survey Team (COASST) is a citizen science project through which participants collect beached bird data that is shared with resource management agencies. We examined how COASST builds trust with volunteers, communities, and resource managers to identify ways citizen science can better inform conservation science and management.
Presenter(s): Jennifer Metes, UC Davis
Strand:  

13) Connecting Early Learners to the Environment: Building with Natural Materials
This poster presentation will focus on using hands-on experiential learning to support young children in developing connections with the environment. An example will be shared of early learners exploring natural materials to construct a child-sized bench that is used as a community-gathering place in their outdoor classroom.
Presenter(s): Deborah Carter, Boise State University; Juli Pool, Boise State University
Strand:  

14) Coordinating Conservation Education Across Institutions for Collective Action
Collaborative partnerships among zoos, aquaria, and field conservation NGOs can expand conservation education to better encourage audiences to participate. This poster will present a cross-institutional, collaborative approach that seeks to support organizations’ education programs and subsequently expand visitors’ conservation behaviors toward creating a social movement.
Presenter(s): Lily Maynard, University of Florida
Strand:  

15) Creating Environmentally Literate Leaders through AMS Education Program Initiatives
Thousands of educators and millions of students have benefited from the work of the American Meteorological Society’s Education Program. Come learn how the AMS Education Program is introducing educators and their students to the excitement of the Earth and environmental sciences.
Presenter(s): James Brey, American Meteorological Society
Strand:  

16) Creating Watershed Connections: Building Teacher Capacity to Engage Students Outdoors
Place-based environmental education can be a powerful tool in motivating student learning and interest in getting outdoors. Learn about a university-EE center partnership preparing inservice teachers to integrate watershed-focused outdoor experiences into their standards-based curriculum, fostering opportunities to connect children with local natural resources while meeting learning objectives.
Presenter(s): Sarah Yelton, UNC Institute for the Environment
Strand:  

Did you know that ...
Wisconsin’s Door County has five state parks and 250 miles of shoreline along Lake Michigan. These figures represent more than any other county in the country.
17) Cree Youth and Their Connections with Water and Water Education
Come paddle in the learning canoe! This presentation discusses the water worldviews and related contexts of Cree youth. Indigenous from Northern Quebec, these youth spent 10 days on a canoe expedition experientially learning about their relationship with water. Findings show their cultural, socio-political, environmental, and spiritual connections with water. Presenter(s): Kristy Franks, Concordia University
Strand:

18) Cultivating Ecological Self: Inspiring Educators to Integrate Teaching into Nature
Educators often encounter psychological obstacles to taking their teaching outside into nearby nature. Drawing on ecopsychological ideas, this poster introduces a series of ‘ecological self’ exercises intended to dissolve psychological barriers to outdoor instruction while inspiring educators to share their new-found nature connection with students in their care. Presenter(s): Eric Windhorst, Brock University
Strand:

19) Designing Science-Featured Environmental Education Programs
As a major player in tropical ecology research, Xishuangbanna Tropical Botanical Garden provides unique opportunities for local environmental education teams to design distinctive programs following cutting-edge research. Here we present one highlighted activity called Huge Fig Trees and Tiny Fig Wasps based on the mutualism between figs and fig wasps. Presenter(s): Jiangbo Zhao, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences
Strand:

20) Dive into Great Lakes Literacy!
Come learn about curricula and professional development opportunities to help you infuse Great Lakes into your teaching. Leave with standards-based lessons, learn about best practices for collaborating with scientists, and hear about models for stewardship. Help increase literacy for our nation’s most important natural resource! Presenter(s): Brandon Schroeder, Michigan Sea Grant/ Michigan State University Extension; Kathy Kline, University of Wisconsin Sea Grant Institute; Anne Moser, University of Wisconsin-Madison; Allison Neubauer, Illinois-Indiana Sea Grant
Strand:

21) Diversifying the Field Through the Nepal Prakriti Pathshala and the Nepalese Department of Education
This presentation highlights the successful collaboration of Nepal Prakriti Pathshala (NGO) and Nepalese Department of Education to promote EE in a system currently lacking EE through local, need-based, hands-on curricula, and training that enable in-service teachers from diverse geographic and social backgrounds to teach effective EE. Presenter(s): Brinda Dewan, University of Minnesota, Duluth
Strand:

22) Diversifying Your Environmental Educator Applicant Pool: A Case Study
Are you concerned about diversity in EE and want to do something concrete about it? To achieve different hiring outcomes, we need to think and act differently in our processes. Learn tools from a hiring manager who decided to rethink his approach to hiring for diversity and experienced positive results. Presenter(s): John Sheehan, Oregon Zoo
Strand:

23) Do Children Tell Parents What They Learn About Environmental Science?
This research investigated whether children tell their parents about what they learn at school about water conservation and the types of family contexts in which this information is exchanged. Implications about intergenerational learning in the STEM fields, especially environmental science, are discussed. Presenter(s): Daniel Harmon, University of California, Riverside
Strand:

24) Do’s and Don’ts for Writing Successful Grant Proposals to NOAA
Join us to learn more about upcoming funding opportunities for NOAA’s Environmental Literacy Program and the Bay-Watershed Education and Training (B-WET) Program and what makes a proposal successful. Attendees will receive a practical list of “do’s and don’ts” for writing grant proposals. Time will be reserved for questions and discussion. Presenter(s): Sarah E. Schoedinger, NOAA; Bronwen Rice, NOAA; Cathy Green, NOAA
Strand:
We enjoy helping people better understand the positive potential of green energy through a variety of enlightening, fun, brains-on/hands-on experiential learning. We welcome one-and-all…come see what we have learned, let us know how we might help you, and share your ideas.
Presenter(s): Bob McCallister, University of Wisconsin-Rock County
Strand: ●

26) Engaging Natural Resource Volunteers: From Education to Action
Volunteers are increasingly important in the work of many EE organizations, but why is it so hard to retain good volunteers? A new model depicting the life cycle of volunteering helps recognize motivations and needs of volunteers at various points in their service and helps foster continued volunteer engagement.
Presenter(s): Dawn Flinn, Minnesota Department of Natural Resources
Strand: ●

27) Environmental Education on Environmental Justice—A Case Study in Taiwan
People living in peripheral zones are prone to be victims of the development. Based on environmental education and multicultural education, this is a case study of views on environmental justice from islanders in Orchid Island and Penghu Archipelago, with the hope to form a basis for doing local environmental education.
Presenter(s): WeiChieh Lin, National Taiwan Normal University
Strand: ●

28) Escuela Verde: Cultivating a Participatory, Just, Sustainable, and Peaceful School
One radical urban school is making EE culturally relevant by: collaborating with the community to create a strong sense of place and skills to flourish without harm; engaging urban youth by adhering to an ecopedagogical praxis; developing biliteracy and honoring linguistic and cultural identities by engaging in translanguaging practices.
Presenter(s): Joey Zocher, Escuela Verde
Strand: ●

29) Exploring Sense of Place in Adolescents: A Qualitative Approach
This research study explored the relationship between sense of place and the demonstrated pro-environmental attitudes and behaviors of adolescents. Data collection included a survey followed by open-ended, semi-structured interviews of participants in a variety of environmental programs across North Carolina.
Presenter(s): Laura Todd, Elon University
Strand: ●

30) Exploring Wild Pedagogy in Early Years Programs
Can wild pedagogy apply to early learning programs and, if so, what would this entail? Join three sets of educators, integrating nature-based programming in different types of early-learning programs, as they share their experiences and reflections regarding this intriguing question.
Presenter(s): Andrea Welz, Sault College; Chrystal Morden, Superior Children’s Centre; Megan Turner McMillan, Algoma District School Board; Cathy Van Buskirk, Superior Children’s Centre; Rachel Laurenti, Algoma District School Board
Strand: ●
31) Give a Whoop! about Whooping Cranes: an Alabama Case Study
The International Crane Foundation has launched a new social marketing campaign to get communities to take pride in having Whooping Cranes on their landscape in an effort to combat human causes of mortality to Whooping Cranes. We have evaluated the impact of our program on changing attitudes towards Whooping Cranes.
Presenter(s): Cully Shelton, International Crane Foundation; Dana Wloch, International Crane Foundation
Strand: ●

32) Global Learning Connections: Linking Environmental Experiences
Learning opportunities in the Amazon favor inquiry, personal discovery, and one’s ability to ask good questions. Using a holistic, multi-disciplinary lens, the learner explores this rich ecosystem while considering opportunities for local engagement and global collaboration. Linking environmental experiences, wherever they may occur, assists in building capacity for conservation education.
Presenter(s): Terri Hebert, Indiana University South Bend
Strand: ●

33) Great Lakes Stewardship Initiative: Place-Based Education Meets Great Lakes Literacy and E-STEM Opportunity
The Northeast Michigan Great Lakes Stewardship Initiative promotes place-based stewardship education for K-12 students. This network supports youth, through their learning, as partners in protecting Great Lakes and natural resources through hands-on experiences with their community. Case studies illustrate how the PBSE process can accomplish Great Lakes Literacy and provide Environmental-STEM opportunities.
Presenter(s): Brandon Schroeder, Michigan Sea Grant/Michigan State University Extension; Meaghan Gass, NEMIGLSI; Tracy D’Augustino, Michigan State University Extension
Strand: ●

34) Great Lakes, Great Education: Classroom and Stewardship Activities for Students
Come learn about our “Great Lakes in My World” NGSS-aligned curriculum, and related stewardship opportunities for students through Adopt-a-Beach, native habitat restoration, or other student-led action projects. Join us in learning about the Great Lakes and this place-based program.
Presenter(s): Katharine Larson, Alliance for the Great Lakes
Strand: ●

35) Green Internship and Competency Building
Which competencies can undergraduates develop through environmental related internships? To answer the question, the narrative study explores the learning experiences of 12 participants in the Green Leadership Internship Program of Seoul National University in South Korea. By grounded analysis, types of key competencies cultivated through the internship are identified, including practical knowledge to bridge the “theory-practice” gap.
Presenter(s): Taeyeon Kim, Seoul National University
Strand: ●

36) Green Ribbon Schools Provide Green Tickets to the Outdoors
Learn how the students, staff, and community at Park Elementary School in Cross Plains, Wisconsin integrate EE best practices into a traditional grade school curriculum. Discover how the Green Ribbon School designation provided new opportunities for environmental education and changed the culture at Park School.
Presenter(s): Amy Callies, Middleton Cross Plains Area School District
Strand: ●

37) Grounded in EE: A Public Charter School and Forest Kindergarten
Ivy Academy, a public charter school with an EE focus, and Wauhatchie School’s Forest Kindergarten are two examples of how students are learning content subject matter while immersed in EE. The poster will include brief facts about each school and pictures of students in action.
Presenter(s): Ramona L. Nelson, Tennessee Environmental Education Association; Betsy Allison, Tennessee Environmental Education Association; Dana Vaughn, Tennessee Environmental Education Association
Strand: ●
38) H2O to Go! Connecting Youth to Research in Environmental Issues
A dynamic residential model, H2O to Go! is a new way to study. High School students are immersed in a summer institute of learning that is a nationally replicable model. Learn about accessing research practices and field-based scientific data collection opportunities required to address current and future environmental issues.
Presenter(s): Christopher Andrew Hill, FAU Pine Jog Environmental Education Center; Min Wang, FAU Pine Jog Environmental Education Center

Horticultural therapy is the use of plants and nature to improve people’s physical, mental, social, emotional, and spiritual well-being. Discover how horticulture therapy is employed and supported to engage populations in learning, growth, and recovery in southeastern New Hampshire. Learn how formative evaluation informed regional programming around these themes.
Presenter(s): Michelle Stewart, Antioch University New England; Elizabeth (Libby) P. McCann, Antioch University New England

40) How to Inspire College Students, From Action Projects to Research
This presentation will discuss the inspiration behind a small action project, and the research survey that followed. Even small projects like the addition of compost bins can make an impact. The research survey that followed targeted college students and investigated what might determine their participation in composting behavior.
Presenter(s): Amanda Kyle, Upham Woods Outdoor Learning Center; Rebecca Lee Franzen, University of Wisconsin–Stevens Point Central Wisconsin Environmental Center

41) Impact of Healthy Eating and Physical Activity in Summer Camp
Keeping children healthy and active during summer break can be challenging. Results from research on healthy eating and physical activity at residential summer camps demonstrated that camps can promote programming that supports the national physical activity and dietary standards. This session will share recommendations for practice in camp settings.
Presenter(s): Ellen King, University of Wisconsin–Stevens Point

42) Inquiry, Habitat Improvement, & Birds: A Recipe for Environmental Literacy
What do inquiry projects, schoolyard improvements, and birds have in common? They are powerful ingredients for creating an authentic interest in science and the natural world. Learn how teachers across the country are using these tools and BirdSleuth resources to actively engage students in a deeper understanding of the environment.
Presenter(s): Kelly Schaeffer, Cornell Lab of Ornithology

43) Isle Royale: Students Discover a Connection to Place and Self
In mid May students in Marquette, Michigan load their backpacks and travel 50 miles across Lake Superior to spend 4 days backpacking in Isle Royale National Park. Through photos, journals, and personal stories, students share what connected them to this unique island wilderness and what they learned about themselves.
Presenter(s): Karen Bacula, Marquette Area Public Schools

44) Lessons & Resources for Stewardship Education
After a three-year NOAA B-WET grant, we have learned from our research what worked and what didn’t. If you are involved in stewardship education, we hope to give you some resources to make your program even better.
Presenter(s): Clayton Pelon, Grand Valley State University; Joanna Allerhand, Grand Valley State University College of Education

45) Local Curriculum—An Opportunity for Effective Environmental Education in Nepal
The Local Curriculum System in Nepal is a perfect medium to introduce Interactive Environmental Education at the school level to address local environmental issues. It provides students with opportunities to have direct interaction with nature, leading to better coherence and understanding of their local environment while instigating deeper connections to nature.
Presenter(s): Sanjeevani Yonzon Shrestha, Wildlife Conservation Nepal
Missouri redesigned its certification program to align with NAAEE Guidelines, and to be accessible, assessable, scalable, and useful even though Missouri doesn’t require certification. We could use your input as we move forward. Check out the program’s sequence, materials, and fees and let us know what you think!

Presenter(s): Jan C. Weaver, Missouri Environmental Education Association

Strand:

Florida Atlantic University Pine Jog’s Green Schools Recognition Program has served over 125 schools. Schools in the program completed a survey documenting their motivations and barriers to participation. Results of the survey will be presented and recommendations for improvements to other Green Schools programs will be given.

Presenter(s): Anne Margaret Henderson, Florida Atlantic University Pine Jog Environmental Education Center

Strand:

Nature engagement and physical activity are declining among children and adults. To counter the negative health impacts of these declines, we tested an active, outdoor nature intervention with mentor and mentee pairs. Results indicate the negative significance of environmental barriers, but also the positive potential of interventions in changing behaviors.

Presenter(s): Kelly Hoormann, Medical College of Wisconsin; Mike Ziegler, Urban Ecology Center

Strand:

NatureFest is an environmental education field day started in 2015 by Hennepin County and the Three Rivers Park District in Minnesota to increase capacity for environmental education and meet the needs of underserved youth. Get an overview of the goals, planning process, day-of activities, evaluation plan, and outcomes.

Presenter(s): Alisa Reckinger, Hennepin County Environment and Energy

Strand:

This poster will present findings from a study which examined the significant life experiences (SLE’s) and formative influences of thru-hikers on the Appalachian Trail. This research provides a greater understanding of the paths that bring people to interact with nature.

Presenter(s): Vanessa Ann Klein, Montclair State University

Strand:

This phenomenological study explored 13 adult outdoor recreation instructors’ perceptions of the natural world and reflections on their past experiences with nature, which facilitated their future relationship with nature, profession, and lifestyle in adulthood. Through interviews, four central themes were concluded and will be presented.

Presenter(s): Tuyen Huynh, University of Nebraska-Lincoln; Julia Torquati, University of Nebraska-Lincoln

Strand:

Recent research on Outdoor Orientation Programs for first-year college students demonstrated that participants have higher levels of social integration, retention, and persistence. Spending time in the outdoors with peers eased the transition from high school to college. Learn how OOPs successfully utilize Student Involvement Theory and Experiential Learning Theory.

Presenter(s): Thomas Quinn, University of Wisconsin-Stevens Point

Strand:

How can the “significant life experiences” research guide program planning in EE? What skills and knowledge do young people need to get outdoors? How can we connect diverse families with the outdoors? In this poster presentation we will share program components, research links, and evaluation results for Pepperwood’s SCENIQ—Students Conducting Environmental Inquiry program.

Presenter(s): Sandi R. Funke, Pepperwood Preserve

Strand:
54) Polartrec Expeditions—Where Arctic Dreams Become Reality
Polartrec pairs teachers with researchers and sends them into the extreme polar environments. Teachers learn about current research in polar science and translate it into lesson plans for their students and for teachers. Learn how two Polartrec teachers engaged their students and community in how climate change impacts the Arctic ecosystems.
Presenter(s): Karen Ann Temple-Beamish, Albuquerque Academy; Dieuwertje Kast, USC Joint Educational Project
Strand:

55) Proposals for Improvement of Shitti Kyoiku (Wetlands Education) in Japan
What do you need to learn to conserve waterfowl and wetland through environmental education activities? The topic is discussed using comparison to environmental education programs at a United States wetlands and case studies on Shitti Kyoiku (Wetlands Education) in Japan.
Presenter(s): Kantaro Tabiraki, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology; David Allen, Texas A&M International University
Strand:

56) SnowSchool: Melting the “One-and-Done” Fieldtrip Model
This presentation will provide an overview of the national SnowSchool program, which engages underserved K-12 students in outdoor snow/water science explorations. Additionally, outcome data will be presented from a new SnowSchool project that uses an innovative snowpack monitoring weather station to connect field trip explorations to extended study in the classroom.
Presenter(s): Kerry McClay, Winter Wildlands Alliance
Strand:

57) Social Marketing Success in Metropolitan Areas
Are your programs and initiatives having the impact you want? Don’t assume that providing information will lead to behavior change. Learn social marketing and communication strategies that have been used with success in one of the largest metropolitan counties in the United States.
Presenter(s): Angie Ziobro, Hennepin County, Minnesota
Strand:

58) STEMify: Repackaging Your Environmental Education Field Day
Finding it difficult to retain schools in your environmental education programs? STEMify! This poster provides a tangible playbook for replicating a STEM Field Day. Special attention has been paid to keeping it low cost, content-standard specific, and in accordance with all four STEM components.
Presenter(s): Tim Tanner, Ohio State University Extension
Strand:

59) Systems Approach to Increasing Student Engagement through E2E Educator Collaboration and Partnerships
NAAEE Affiliate Educator 2 Educator teams in Washington, Alaska, Idaho, and Oregon have been applying systems-thinking to develop deep and lasting partnerships between school districts and community natural resource partners. E2E has developed professional development, partnership, and evaluation tools to support work between formal (classroom) and informal (community) educators.
Presenter(s): Steven Braun, Lane County STEM Hub; Aprovecho Center for Research and Education in Sustainability
Strand:

60) The Fargo Project—Where Ecosystem Services and Community Converge
The Fargo Project aims at reinforcing a city’s cultural and social fabric by creating a park within and near a storm water basin that nearby inhabitants can use as a place to walk, play, gather and grow food, and learn about the environment and ecosystem services first hand.
Presenter(s): Christina Hargiss, NDSU
Strand:

61) The Human Dimension of Conservation Gardening
Conservation gardeners are individuals who adopt environmentally friendly landscape practices in their residential landscape. This poster presents research aimed at understanding the relationship that conservation gardeners have with nature as quantified by connection to nature indicators. Demographic trends and areas for growth are presented.
Presenter(s): Kelly Cartwright, College of Lake County
Strand:
62) The Integration of EE Curricula into Elementary Preservice Education
A model that integrates standard EE curricula into the science methods course of preservice elementary students is discussed. In an educational paradigm where science is defocused at the elementary level, this integration provides support for teachers to connect future students with nature, and hopefully increases their self-efficacy to do so.
Presenter(s): Lauren Charel Johnson, Columbus State University Oxbow Meadows Environmental Learning Center; Michael Dentzau, Columbus State University
Strand:

63) The Seawall Interpretive Trail: Providing Environmental Education and Inspiring Conservation
Project SIT (Seawall Interpretive Trail) is an Artist Boat beautification project approved by Galveston County to transform 70 Galveston Seawall benches into educational works of art that highlight Galveston and the Gulf of Mexico’s ecology, economy, and history, while bringing awareness to this fragile landscape.
Presenter(s): Karla Klay, The Artist Boat, Inc.
Strand:

64) Tools to Support Place-Based Stewardship Education
The Great Lakes Stewardship Initiative has developed several tools to advance the understanding and practice of place-based stewardship education. Check out a nationally reviewed set of guiding principles and an associated self-assessment rubric; vibrant case studies of exemplary projects; and a white paper on the importance of context/setting in shaping place-based stewardship education.
Presenter(s): Lisa M. Marckini-Polk, Civic Research Services, Inc.; Mary Whitmore, Great Lakes Stewardship Initiative
Strand:

65) Tracing Climate Change through Proxies
How do scientists study climate conditions from millions of years ago? Proxies! A proxy is a preserved physical characteristic of the past used to reconstruct past climate conditions. Gain a better understanding among proxies, weather, and climate through hands-on, interdisciplinary lessons that are engaging for high school students.
Presenter(s): Lisa Sarubbi, The United Illuminating Company
Strand:

66) Understanding Plant Blindness: Drawing on Environmental Field Trips
This research represents one of the first studies to investigate the roots of “plant blindness” and what may be contributing to the mental dismissal of plant communities. It is the hope that the findings from this study will help environmental education professionals further environmental literacy across age groups.
Presenter(s): Paula Comeau, North Dakota State University
Strand:

67) Urban Birders: More than Just Feeders!
From eagles to chickadees, no feather is left unruffled. Curiosity is sparked, science skills are developed, and stewardship is built in urban youth with very little outdoor experience. Learn how this program encourages a positive relationship with the natural world. You will leave excited and inspired!
Presenter(s): Niki Espy, Neighborhood House of Milwaukee
Strand:

68) Using Drawings to Assess Ecological Content Knowledge in Elementary-Age Students
Assessment of learning outcomes is key to environmental education. This study highlights a process that was developed for a particular ecosystem, but that can be adapted to fit numerous other systems, where drawings in a pre/post format were scored with a validated and reliable rubric. Student growth is discussed.
Presenter(s): Michael Dentzau, Columbus State University
Strand:
69) Using School Grounds to Provide Outdoor Learning Experiences
This presentation will focus on a graduate-level study looking at how teachers, administrators, and site managers view their schools' grounds. Data will be presented on how schools across Wisconsin are utilizing their school grounds for positive learning experiences and how school ground type impacts staff attitudes to outdoor learning.
Presenter(s): Brent Burton, University of Wisconsin–Stevens Point Central Wisconsin Environmental Station; Rebecca Lee Franzen, University of Wisconsin-Stevens Point Central Wisconsin Environmental Center

Strand:

70) Volunteers Develop Positive Relationships with Chimpanzees in Taipei Zoo
Six pairs of interpreters/volunteers spent time visiting the chimpanzees in Taipei Zoo, and four pairs used chimpanzee etiquette and friendly and non-aggressive behaviors. The chimpanzees showed relatively more significant interactions with them. Most interpreters/volunteers developed abilities of observing behaviors and their view and affection towards chimpanzees changed.
Presenter(s): Susan Shiau, Graduate Institute of Environmental Education, National Taiwan Normal University

Thursday 2:15 PM

The following sessions all start at 2:15 PM. The end times vary with the type of session as indicated. Ninety-minute sessions are listed first, followed by 40-minute sessions.

Special Session
2:15 PM-3:45 PM

Introduction to EPOC (Environmental Professionals of Color)
2:15 PM-3:45 PM, Hall of Ideas J
Interested in learning more about the Center for Diversity & the Environment's Environmental Professionals of Color Network? Join EPOC members and CDE to learn more about the movement, meet the coalition, and be inspired to start your own EPOC chapter in your community.
Presenter(s): Queta Gonzalez, Center for Diversity & the Environment; Gladys Ruiz, Audubon Society of Portland

Symposia
2:15 PM-3:45 PM

Current Findings: Research You Can Use
2:15 PM-3:45 PM, Lecture Hall
This session provides a synopsis of emerging issues, solutions, methods, and theories from the 2016 NAAEE Research Symposia and this year's Applying Research to Increase Our Impact conference strand. A panel of EE researchers will share their reflections and guide discussion on how these inform current and future EE practice.
Presenter(s): Nicole Ardoin, Stanford University; Robert Justin Hougham, University of Wisconsin Cooperative Extension; Steve C. Kerlin, Stroud Water Research Center; Ruth Kermish-Allen, Maine Math and Science Alliance

Using Story Telling to Advance Climate Change Education and Action
2:15 PM-3:45 PM, Ballroom D
Be inspired by diverse stories describing impacts to health, the places we call home, plus solutions and changes over lifetimes. Learn how projects that use stories are funded, designed, and evaluated and enable participants to develop a sense of place, community understanding, and decision-making and collaboration skills for addressing climate change.
Presenter(s): Kristen Poppleton, Climate Generation: A Will Steger Legacy; Jason Davis, Climate Stories Project; Art Sussman, WestEd
Moderator: Karen S. Hollweg, Fulbright Specialist

Hands-On Presentations
2:15 PM-3:45 PM

Bringing NGSS Outside: Navigating and Engaging the New Science Standards
2:15 PM-3:45 PM, Hall of Ideas F
Learn about the components of the Next Generation Science Standards and how they can support environmental education. Specific tools and examples will be provided for engaging the Scientific Practices in outdoor settings for all elementary students. This session will be geared toward both classroom teachers and informal educators.
Presenter(s): Ad Walker, Education Outside

Strand:
Getting Your Feet WET! Project WET’s Early Childhood Education Guide
2:15 PM–3:45 PM, Hall of Ideas I
The Project WET Foundation introduces their early childhood educator guide to teach young children about the importance of water while introducing them to age-appropriate science content. In a hands-on, interactive demonstration you will see how Project WET uses its expertise to produce a curriculum for any early childhood education setting.
Presenter(s): Julia Beck, Project WET Foundation; Megan Regnerus, Project WET Foundation
Strand: ●

Greening the Curriculum through Media Literacy Approaches to Sustainability Education
2:15 PM–3:45 PM, Hall of Ideas G
How can today’s K–12 teachers engage all students in critical thinking about environmental and sustainability issues while still meeting standards-based curriculum requirements? This dynamic session will showcase media literacy approaches to E-STEM education, leading participants through interactive media decoding and providing free materials they can use immediately in their classrooms.
Presenter(s): Cyndy Scheibe, Project Look Sharp, Ithaca College; Chris Sperry, Project Look Sharp, Ithaca College
Strand: ●

Hydros Water Project Ambassadors Training in Mexico
2:15 PM–3:45 PM, Hall of Ideas H
This workshop will be a hands-on activity about how to best utilize the materials of the Hydros Project to demonstrate the physical and chemical properties of water and experience playful dynamics that promote reflection about our use of water resources that can be adapted to any environmental education project.
Presenter(s): Edgar Regalado, Centro de Informacion y Comunicacion Ambiental de Norte America A.C. (CICEANA)
Strand: ●

NAAEE Higher Education Accreditation: How Do You Get It?
2:15 PM–3:45 PM, Hall of Ideas E
This workshop will provide answers to any questions you have related to becoming a NAAEE Distinguished College or University. The complete standards-based process will be described by faculty members who have completed applications. Faculty will be available to describe their experiences related to organizing the application and evaluating programs.
Presenter(s): Rebecca Lee Franzen, University of Wisconsin–Stevens Point Central Wisconsin Environmental Center; Melinda Wilder, Eastern Kentucky University; Dottie K. Shuman, Montreal College; Yash Bhagwanji, Florida Atlantic University; Terry Wilson, Western Kentucky University; Jeanine Huss, Western Kentucky University; Billy Bennett, Eastern Kentucky University
Strand: ●

Traditional Presentations
2:15 PM–2:55 PM
Building Sustainable Communities Through Collective Impact in the Puyallup Watershed
2:15 PM–2:55 PM, Meeting Room Q
Creating sustainable and equitable communities requires environmental educators to act in a comprehensive, system-wide manner. A Collective Impact effort called the Puyallup Watershed Initiative brought together more than 100 organizations to design action projects that link environmental education to transportation, agriculture, forests, water, food systems, and personal and environmental health.
Presenter(s): Ken Campbell, The Ikkatsu Project; Jennifer Grimm, Puyallup Watershed Initiative
Strand: ●

Empowerment and Capacity-Building Through Communities of Inquiry, Learning, and Practice
2:15 PM–2:55 PM, Meeting Room MN
Communities of Learning, Inquiry, and Practice (CLIP) are emerging as effective approaches for the development and spread of EE ideas, resources, and best practices. Convening educators from diverse backgrounds in ongoing dialogue, CLIPs function as networks for support, innovation, and sustained program evolution. Dive into a CLIP experience and learn!
Presenter(s): Joan Haley, Shelburne Farms & Marsh-Billings-Rockefeller NHP; Beth Beringer, Essex National Heritage Commission
Strand: ●
Leveraging National Programs to Advance Your Green School Program
2:15 PM–2:55 PM, Meeting Room OP
Developing state, national, and international partnerships has increased the number of Wisconsin schools committed to sustainability. Learn how these partnerships (Green & Healthy Schools, PLT GreenSchools!, EcoSchools USA, and U.S. Department of Education Green Ribbon Schools) increase efficiency, leverage resources, and grow the green schools movement to deliver environmental education.
Presenter(s): Susan Schuller, University of Wisconsin-Stevens Point; Kim Martinez, National Wildlife Federation; James Riley McGirt, Project Learning Tree; Strand: 

Piedmont Tree Project–Place Based Education and Student Self-Efficacy
2:15 PM–2:55 PM, Meeting Room R
This talk will discuss the process and challenges of creating/facilitating student scientists as they get outside the classroom and grapple with skills and content to measure the carbon content and water diversion of the trees on our campus. Some were inspired, many were empowered, but they all learned.
Presenter(s): Jonathan Montoya, East Side Union High Strand: 

Set Your Nonprofit Up for Success! Principles of Nonprofit Management
2:15 PM–2:55 PM, Meeting Room KL
Clearly defined roles and responsibilities and transparent operations will set your nonprofit up with the foundations for success. Build a solid governance structure, proper financial management, strategic partnerships, and an inclusive organizational culture to strengthen your organization and promote your mission.
Presenter(s): Ashley Hoffman, Kentucky Association for Environmental Education Strand: 

Bright Spots
2:15 PM–2:55 PM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room
1) Employing Environmental Educators of All Abilities
One in five Americans has a disability. Learn how a new internship program at nature centers in Wisconsin is empowering young people with disabilities and their supervisors while creating more inclusive organizations.
Presenter(s): Kendra Liddicoat, University of Wisconsin-Stevens Point; Carly Swatek, Riveredge Nature Center; Emily Brown, Wehr Nature Center; Tom Finley, Schlitz Audubon Center
Strand: 

2) The Zoo's For You Too: Engaging Adults Through Educational Programming
Wacky mating tactics? Sea Lion Christmas Party? Animals that always show their St. Paddy's Day cheer? With a myriad of topics, from themed parties to game nights, the Oklahoma City Zoo has effectively created curriculum that engages a forgotten audience—adults.
Presenter(s): Erica Buckwalter, Oklahoma City Zoo
Strand: 

Roundtable Discussions
2:15 PM–2:55 PM, Ballroom C
Bioculturally Responsive Education Bringing Sustainability STEM to Life: A Collective Storyboarding Roundtable
Table 1
During this dynamic session, three sustainability education researchers facilitate a vibrant conversation combining powerful research-based emergent pedagogies. Participants will collaborate on a collective, bioculturally responsive storyboard with approaches to their curriculum infusing Two-Eyed Seeing, Land-Based Place Pedagogies, Indigenous Ways of Knowing, Biocultural Diversity, and Sustainability Systems along with arts-STEAM.
Presenter(s): Marna Hauk, Institute for Earth Regenerative Studies & Prescott College; Mandisa Wood, Napa Valley College; Michelle Fisher, Three Rivers College
Strand: 
Creating EE Organizations that Work

**Table 2**
Is your EE organization facing some roadblocks? With over 30 years in the EE field, I have faced whatever challenges you are facing. In this session I will work with you to ensure your organization is reaching its full capacity, and changing roadblocks into bridges for success.

**Presenter(s):** Stephen Eshbaugh, Best Place Consulting

**Strand:** ecoSTEAM: Ecological Contexts of the Arts and STEM

**Table 3**
Relevant ecological contexts are critical to meaningful integration of the arts with science, technology, engineering, and mathematics—ecoSTEAM—in sustainability education and community development. These place-based considerations facilitate systems thinking and promote socioecological mindedness. Examples from preservice teacher education STEM and science courses highlight the value of highlighting such ecological contexts.

**Presenter(s):** Polly L. Knowlton Cockett, Grassroutes Ethnoecological Association; Bonnie L Shapiro, University of Calgary

**Strand:** Partnering to Amplify Every Kid in a Park

**Table 4**
With the first year of Every Kid in a Park complete, there are several conclusions about the need for strategic national partnerships to pull off such a comprehensive and robust youth engagement campaign that eliminates the barrier of access to 4th graders and their families in connecting with public lands.

**Presenter(s):** Katherine Chesson, National Park Foundation

**Strand:** Resiliency: People, Planet, and Community

**Table 5**
Learn about an environmental justice program model, California Youth Energy Services, that employs local youth to build resiliency in individuals, communities, and the planet. Participants will have the chance to share their own best practices, discuss challenges and opportunities, and explore the role green jobs play in achieving environmental justice.

**Presenter(s):** Julia Hatton, Rising Sun Energy Center

**Strand:** Why Mattering Matters: Conservation, Connections, and People

**Table 7**
Student Conservation Association (SCA)’s research shows that participants who feel like they matter to their leaders and teammates are four times more likely to emerge with stronger conservation mindsets and leadership skills. Hear more about how you can use SCA’s findings to strengthen your program.

**Presenter(s):** August Ball, Student Conservation Association

**Strand:** The International Crane Foundation in Baraboo is the only place in the world where you can see all 15 crane species, including endangered Whooping Cranes.
Thursday 3:05 PM

The following sessions are all 40-minute sessions that start at 3:05 PM and end at 3:45 PM.

**Traditional Presentations**

3:05 PM–3:45 PM

**Connecting Faith and Sustainability through Education and Service**

3:05 PM–3:45 PM, Meeting Room Q

For over ten years, Wisconsin Green Muslims has been developing and organizing programs connecting faith and sustainability through education and service for all ages. These programs tie sacred teachings and spirituality with environmental justice issues related to climate change, water, food, energy efficiency, solar energy, recycling, transportation, and waste reduction.

Presenter(s): Huda Alkaff, Wisconsin Green Muslims

Strand:

**Crafting Your Own Elevator Speech: Taking Advantage of First Impressions**

3:05 PM–3:45 PM, Meeting Room KL

How well are you answering the question, “What do you do?” Learn how to color your story in the time it takes to get from the ground level to the rooftop terrace. This workshop is geared towards emerging professionals wishing to practice their skills at delivering hand-crafted, authentic elevator speeches.

Presenter(s): Cassie Bauer, Riveredge Nature Center

Strand:

**Develop an After-School Junior Naturalist Program!**

3:05 PM–3:45 PM, Meeting Room MN

Based on a successful 20-year program, learn how to create and manage an exciting After-School Junior Naturalist Program for children in Grades 3–5 which will nurture their interest in nature, teach basic concepts of ecology, and create future stewards of the environment!

Presenter(s): David Kronk, Northern Michigan University

Strand:

**Over the Adventure Gap: Exploring Diversity and Inclusion in the Use of Public Land**

3:05 PM–3:45 PM, Meeting Room OP

People of color are less likely than their white counterparts to seek recreation, adventure, and solace in wilderness. Bridging the so-called “adventure gap” is critical to the long term preservation of the natural world. This session explores the role of diversity and inclusion in inspiring connections to the outdoors.

Presenter(s): James Mills, The Joy Trip Project

Strand:

**Sing for the Planet**

3:05 PM–3:45 PM, Meeting Room R

The music of Pete Seeger provides a great introduction to the methods that work in environmental education—positive, informed civic activism. Free films (on public television) and activities will be featured.

Presenter(s): Juliana Texley, Central Michigan University

Strand:

**Bright Spots**

3:05 PM–3:45 PM

Learn about two or three successful and loosely related programs in each 40-minute Bright Spots sessions. Sessions are presented in the order listed.

1) **Chicago 5th Graders Become Environmental Stewards for Their Community**

Lincoln Park Zoo’s Chicago Environmental Stewards program works with 5th grade students to bring the PRO-wildlife actions (Protect, Restore, and Observe) to their school and neighborhood. Students learn how to appropriately interact with and support urban wildlife through interactive field trips, classroom activities, and creating a native prairie at their school.

Presenter(s): Jamie Herget, Lincoln Park Zoo

Strand:

2) **“Drawing” Conclusions: Using Cognitive Mapping to Evaluate Connections With Nature**

Cognitive mapping investigated participants’ connection to nature and sense of place during the Wildlife Conservation Society’s Project TRUE (Teens Researching Urban Ecology) after-school program in Brooklyn, New York.

Presenter(s): Christine Biela, Western Sydney University

Strand:

**Hall of Fame Room**
3) Using “Guerilla” Education to Reach a Diverse Audience
How can organizations connect with the most diverse audiences around? At The Caterpillar Lab, we take our place-based educational program to the streets... literally! In this Bright Spot, we’ll share information, advice, and stories about “guerilla” education, focusing on our teaching experiences with native caterpillars in unexpected downtown locations.
Presenter(s): Elizabeth E. Kautz, The Caterpillar Lab; Samuel Jaffe, The Caterpillar Lab
Strand: Roundtable Discussions
3:05 PM–3:45 PM, Ballroom C

Considerations of Place in Sustainability Education Policy
Table 1
Place has been studied by various fields in distinctive ways, and each discipline tends to privilege a certain aspect of place based upon their disciplinary frameworks. As opposed to exploring place through a disciplinary lens, this presentation urges participants to understand place as a holistic, multidimensional concept.
Presenter(s): Jada Renee Koushik, University of Saskatchewan
Strand: Roundtable Discussions

Creating Connections: Leveraging EE Networks to Inspire Action
Table 2
Unlike one and done programs, programs that create networks of graduates can be a great way to translate inspiration from a program into action on the ground. Come share your ideas, experiences, and learn from others who are using networks to enhance program impact in EE.
Presenter(s): Anna Hawley, Aldo Leopold Foundation
Strand: Roundtable Discussions

Fostering and Supporting Emerging Environmental Leadership: Strategies for Affiliates
Table 3
Is your Affiliate interested in amplifying the voice of emerging environmental leaders? Are you currently implementing youth empowerment initiatives? Join in this roundtable discussion to identify barriers and share strategies for building youth engagement and empowerment through your Affiliate.
Presenter(s): Olivia Griset, Maine Environmental Education Association; Adrian Ayson, New England Environmental Education Alliance
Strand: Roundtable Discussions

Inspiring Youth Through the Environment: FAU Pine Jog Out of School Programs
Table 4
Our out-of-school programs cultivate environmental literacy in K–5 students through engaging, exploring, and experiencing nature. Come learn about our after-school and day-camp programs which provide rich environmental instruction and foster the future generation of stewards using our 150-acre natural area and unique connection to Florida Atlantic University.
Presenter(s): Jessica Noriega, Florida Atlantic University Pine Jog Environmental Education Center
Strand: Roundtable Discussions

One Click for Conservation: Using Gaming to Promote EE
Table 5
Can you integrate EE and screen time? Animal Jam, the leading online social network for kids, partnered with Bat Conservation International and Polar Bears International to share their conservation message with players. Learn about the impact of creative collaboration and how you can share your message with tech-savvy Generation Z.
Presenter(s): Alexandra Porpora, WildWorks/Animal Jam
Strand: Roundtable Discussions

Partnering for Pollinators: Designing Habitats for Environmental Science Study
Table 6
Schoolyard habitat gardens are widely endorsed by organizations such as the National Wildlife Federation and the U.S. Fish and Wildlife Service. This session shares how school-community partnerships resulted in the creation of a certified pollinator habitat at a dual language immersion/environmental science elementary magnet school in northern California.
Presenter(s): Carrie Strohl, UC Davis
Strand: Roundtable Discussions

The Misguided Conservative Attack Against Sustainability in Education
Table 7
This roundtable will discuss the most common critiques levelled against sustainability in K–16 education—with a particular focus on higher education, the level where the main battles for and against climate change are taking place—and explain why they are incorrect by means of theoretical approaches and empirical data.
Presenter(s): Alberto Arenas, University of Arizona
Strand: Roundtable Discussions
Thursday 4:00 PM

The following sessions all start at 4:00 PM. The end times vary with the type of session as indicated. Ninety-minute sessions are listed first, followed by 40-minute sessions.

Meetings
4:00 PM–5:30 PM

EPOC Business Meeting
4:00 PM–5:30 PM, Hall of Ideas J
The Environmental Professionals of Color (EPOC) business meeting is open to all EPOC members and potential members. We will build community connections, discuss lessons learned, and identify potential priority areas for the next year. EPOC is a program of the Center for Diversity & the Environment.
Coordinator: Queta Gonzalez, Center for Diversity & the Environment

Symposia
4:00 PM–5:30 PM

Humility or Hubris? Lessons on Tackling Diversity and Inclusion Efforts
4:00 PM–5:30 PM, Lecture Hall
EE is for everyone, right? So why are so many organizations struggling with how to truly integrate diversity and inclusion into their work? This panel will share personal stories about common pitfalls along with insights about the ingredients to successful diversity and inclusion efforts, with time to discuss solutions together.
Presenter(s): Jennifer Kobylecky, Aldo Leopold Foundation; J. Drew Lanham; Nicole Jackson, EE Capacity; Belinda Chin, City of Seattle; Lainet Garcia-Rivera, Urban Ecology Center
Strand:●

Hands-On Presentations
4:00 PM–5:30 PM

EIF Common Ground for Action: Deliberating about Controversial Issues Online
4:00 PM–5:30 PM, Hall of Ideas E
What do controversial issues, civic deliberation, and online learning have in common? Environmental Issues Forums (EIF) promote public and classroom deliberation on important issues such as climate change. Common Ground for Action (CGA) provides an online platform for deliberation. Learn about EIF and participate in an EIF-CGA online forum.
Presenter(s): Bora Simmons, National Project for Excellence in Environmental Education
Strand:●

From Seed Sandbox to Nature Preschool: Our Early Childhood Journey
4:00 PM–5:30 PM, Hall of Ideas G
Over the past several years, the Chicago Botanic Garden has dramatically expanded early childhood environmental education. Utilizing hands-on activities as interactive illustrations, we will share our story of growing a few nature play activities into a nature preschool, a robust slate of professional development, and a far-reaching strategic plan.
Presenter(s): Eileen Prendergast, Chicago Botanic Garden; Rebecca Ammann, Chicago Botanic Garden
Strand:●

Practicing What Research Preaches: How Learning Happens
4:00 PM–5:30 PM, Hall of Ideas H
There is a large amount of research on how people learn, and many aspects of learning that should influence how we teach. This session breaks down the research on what is known about how people learn, and provides experiences to help make sense of and apply new understandings to practice.
Presenter(s): Jedda Foreman, Lawrence Hall of Science; Kevin Beals, Lawrence Hall of Science, BEETLES (Better Environmental Education, Teaching, Learning, & Expertise Sharing)
Strand:●
Score Four: Student Engagement, E-STEM Inquiries, Campus Stewardship, Cleaner Streams
4:00 PM-5:30 PM, Hall of Ideas I
Are you looking for project-based lessons that get students outside, engaged in their local environment, and empowered with E-STEM skills? Attend this Score Four session for modules that lead students through watershed investigations, campus inquiries, and the implementation of a Sustainable Stormwater Project to reduce water pollution.
Presenter(s): Rebecca Wolf, Interstate Commission on the Potomac River Basin; Margarita Rochow, Elms Environmental Education Center/SMCPS
Strand: ●

Teaching Climate Change Through Birds With Madison Audubon’s Climate Initiative
4:00 PM-5:30 PM, Hall of Ideas F
Learn to incorporate Madison Audubon Society’s (MAS) Climate Initiative lessons into your classroom. Through 12 interactive lessons, students learn the science behind climate change, collect and analyze phenology data, and investigate how Wisconsin’s climate, landscape, and wildlife will change in the future. Curriculum and supporting materials free for teachers through MAS.
Presenter(s): Carolyn Byers, Madison Audubon Society
Strand: ●

Traditional Presentations
4:00 PM-4:40 PM

Building Science Literacy with Field Investigations and Collaboration
4:00 PM-4:40 PM, Meeting Room Q
For over ten years in New Hampshire, Project Learning Tree, Project WET, Project WILD, and the GLOBE Program coordinators have collaborated on K-12 teacher professional development for popular environmental science topics. Learn how this collaboration came to be, the process, and lessons learned in making it all happen.
Presenter(s): Susan M. Cox, USDA Forest Service
Strand: ●

Environmental Education Federal Policy Briefing
4:00 PM-4:40 PM, Meeting Room KL
Environmental education advocates educate legislators and staff about a variety of U.S. federal policies that affect the field. This is an update to the range of legislative and regulatory issues that help the field, and what actions will be needed this year and next to successfully advance them.
Presenter(s): Brock Morris Adler, Consultant; Sarah Bodor, NAAEE
Strand: ●

Help BLM Use EE to Cultivate Shared Public Lands Stewardship
4:00 PM-4:40 PM, Ballroom D
The Bureau of Land Management (BLM) cultivates shared public land stewardship in the western U.S. using EE. How can you partner with BLM in your state? Share your insights about how BLM might collaborate with EE organizations in your state to educate and engage youth in the public lands’ story.
Presenter(s): Janet Carrier Ady, Bureau of Land Management; Derrick Baldwin, Bureau of Land Management
Strand: ●

Improving Educator’s Self-Efficacy in Teaching About Climate Change
4:00 PM-4:40 PM, Meeting Room MN
Want to know how to make your educator workshops more effective? This session will discuss strategies for creating professional development opportunities for educators that build their self-efficacy in teaching about climate change. We can help teach you to teach about climate change!
Presenter(s): Christine (Jie) Li, University of Missouri; Tracey Ann Ritchie, University of Florida; Martha C. Monroe, University of Florida; Annie Oxarart, University of Florida
Strand: ●

Instilling Community Pride of Place Through Service Learning
4:00 PM-4:40 PM, Meeting Room OP
One-time service projects are great photo opportunities and can inspire short-term feelings of accomplishments from volunteers. What if a community engages in a continuous effort to improve their local green spaces? Keep Austin Beautiful is bringing communities together to develop a pride of place and long-term stewardship.
Presenter(s): Ilya Shmulenson, Keep Austin Beautiful
Strand: ●
Social and Emotional Learning Outcomes in Environmental Education
4:00 PM–4:40 PM, Meeting Room R
NatureBridge recently launched an organization-wide focus on best practices in Social and Emotional Learning (SEL) in residential environmental education. Join us in a presentation and discussion of draft SEL outcomes in an informal setting. We will present recent findings and learn from each other in a facilitated discussion.
Presenter(s): Emily Volz, NatureBridge; Jennifer Kidder, NatureBridge
Strand: Bright Spots

Bright Spots
4:00 PM–4:40 PM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

3) Meeting Community Needs Through Environmental Education Partnerships
Founded in partnership with the National Park Service, partnering is in Dunes Learning Center’s DNA! Our impact is large by industry standards—providing connections to nature for more than 10,000 individuals annually. Partnerships make it possible for us to meet the needs of a diverse population.
Presenter(s): Geo Bensen, Dunes Learning Center
Strand: Roundtable Discussions

Roundtable Discussions
4:00 PM–4:40 PM, Ballroom C
Bridging the Gap Between Formal and Informal EE Through Professional Learning Communities
Table 1
Effective Professional Learning Communities (PLCs) are committed to collective inquiry, action experimentation, continuous improvement, and results. Learn about how one NSF-funded initiative is bringing informal environmental educators together with classroom teachers from four different states to build community around the use of virtual internships to enhance civic and place engagement.
Presenter(s): Jennifer Klein, Lesley University; Kris Scopinich, Mass Audubon
Strand: Building an EE Support Group: Advancing EE Practice and Research
Table 2
Learn how four EE educators and researchers from four different institutions work together to support both their research and practice. Join a discussion on how you can create an EE network with technology to support your writing and research goals and increase accountability.
Presenter(s): Allison L. Freed, University of the Ozarks; Aerin W. Benavides, The University of North Carolina at Greensboro
Strand: Building an EE Support Group: Advancing EE Practice and Research
Certification 101: You Can Become a Certified Environmental Educator!

Table 3
Whether you are new to the field or have years of experience, EE Certification Programs can help you grow as an environmental educator and develop your professional credentials. Join us for an informal roundtable to find out more about certification, discuss your needs, and explore opportunities available across the country.
Presenter(s): Wesley Bullock, Kentucky Environmental Education Council (KEEC); Laura Johnson Collard, Maryland Association for Environmental and Outdoor Education; Thom Benedict, Utah Society for Environmental Education; Eileen Everett, Environmental Education Association of New Mexico; Jennifer Bucheit, Old Woman Creek NERR; Sarah Haines, Towson University; Katie M. Navin, Colorado Alliance for Environmental Education

Innovative Community Partnerships in Environmental Education

Table 4
Community partners can have many positive impacts on student learning in a variety of subjects. Just as students have a variety of learning styles and strengths, a variety of community partners can help you, as you help your students achieve greatness.
Presenter(s): Kimberly Kallio Murray, Munford Schools

Ranching for Conservation: Sustaining Biodiversity, Livelihoods, and Communities in the Northern Great Plains

Table 5
We will discuss how Audubon Rockies is and will continue to engage ranching communities using our Community Naturalist Program, with the intent of building ecosystem health while improving the sustainability of ranching.
Presenter(s): Dustin Downey, Audubon Rockies; Jacelyn Downey, Audubon Rockies

Understanding U.S. Department of Green Ribbon Schools: A Catalyst for Environmental Education

Table 6
Learn about how the U.S. Department of Education Green Ribbon Schools program provides pathways for environmental education in a time of so many other educational mandates. Discover how your school or organization can support participation in this federally sponsored program, learn application tips and tricks, and explore “model” schools across the nation.
Presenter(s): Victoria Rydberg, Wisconsin Department of Public Instruction; Patty Born-Selly, Hamline University

Strand: ●

Thursday 4:50 PM

The following sessions are all 40-minute sessions that start at 4:50 PM and end at 5:30 PM.

Traditional Presentations

4:50 PM-5:30 PM

Hands on the Land: Creating Shared Community and Stewardship for the National Conservation Lands

4:50 PM-5:30 PM, Meeting Room Q
The BLM’s National Conservation Lands represent a model in which landscape-scale conservation can be achieved through shared stewardship, recognizing that nature conservation and human progress are not mutually exclusive. The National Conservation Lands implement numerous nature-based solutions to address societal challenges; education through the Hands on the Land program is one important example.
Presenter(s): Derrick Baldwin, Bureau of Land Management

Harvesting Lessons and Experiences From Mexico City School Gardens Project

4:50 PM-5:30 PM, Meeting Room OP
For twelve years CICEANA’s Mexico City School Gardens Project has given us the opportunity to generate education methodologies appropriate to urbanized areas for primary and secondary schools. We want to share the lessons learned and experiences gained with students and teachers from our country.
Presenter(s): Ileana Alcocer, Centro de Información y Comunicación Ambiental de Norte América A.C. (CICEANA)

Strand: ●
Online Learning: Lessons From EECapacity
4:50 PM-5:30 PM, Meeting Room KL
How can educators integrate project-based learning and social networking into online courses? Learn about a Massive Open Online Course (MOOC) with over 2000 participants from 135 countries; a small open online course with 25 students; and learn how environmental educators across the U.S. are learning how to offer their own online courses.
Presenter(s): Marianne Krasny, Cornell University; Anne Umali Ferguson, Cornell University; Brian Hutchison, Cornell University

Patterns and Processes in Ecology: Free Classroom Resources
4:50 PM-5:30 PM, Meeting Room R
What controls the numbers and distributions of animals in their environment? How do animals interact with other species? How do natural patterns arise in nature? These are some questions that generations of ecologists have been studying. This workshop will feature some of our newest media offerings and ready-to-use classroom resources.
Presenter(s): Maria Kopecky, Aldo Leopold Foundation

The Intersection of Environmental Education and Social Justice: Urban Graduate Education
4:50 PM-5:30 PM, Meeting Room MN
IslandWood’s M.A.Ed in Urban EE prepares educational leaders with innovative approaches to navigate the intersection of social justice, urban planning, and socio-ecological well-being. A new and diverse educational leadership engages urban communities in place-based transformational learning embracing social justice and culturally responsive learning within a complex urban ecology.
Presenter(s): Cynthia Thomashow, Islandwood and Antioch University Seattle

Bright Spots
4:50 PM-5:30 PM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room
1) Bringing Communities Together to Celebrate a Land Ethic
Each March during Leopold Week, thousands of individuals gather to celebrate Aldo Leopold’s ideas and inspire a new commitment to his vision of a land ethic in their communities. Learn how one grassroots effort grew into a national event and how community partnerships are key to reaching broad audiences.
Presenter(s): Maria Kopecky, Aldo Leopold Foundation

2) Community Convenings: Facilitating the Conversation on Climate Change
Learn about the impacts of ‘Climate Convenings’. These locally-focused events provided participants with resources and tools to help them mitigate and adapt to climate change. Evaluation results highlight the project’s successes in facilitating rural communities’ ability to mitigate and adapt to climate change and participants to take action.
Presenter(s): Molly Phipps, Minnesota Association for Environmental Education

3) Tools for Engaging Community Around Litter Reduction Efforts
Learn about our convenient, well-stocked Litter Cleanup Trailer that engages volunteers in litter reduction efforts that build pride and a sense of community ownership. Details shared about this grant-funded project will include procurement and design of trailer, marketing and outreach efforts, and metrics on participation and cleanup results.
Presenter(s): Heather Merchant, City of Plano
Roundtable Discussions  
4:50 PM–5:30 PM, Ballroom C

Analyzing Children's Play in the Outdoor Classroom Using GoPro Cameras  
**Table 1**  
Using GoPro cameras, presenters have captured children's selection and use of materials in a blended environment with both traditional and natural play opportunities. Find out what items were most used at our laboratory school and how children played with them.  
**Presenter(s):** Mollie von Kampen, Ruth Staples Child Development Laboratory, University of Nebraska-Lincoln; Erin Hamel, University of Nebraska; Keting Chen, University of Nebraska-Lincoln

Strand: Climate Change Environmental Education: Sharing Innovative Practices, Outstanding Resources, and Pressing Challenges  
**Table 2**  
Join colleagues involved in climate change environmental education to share ideas, compare frustrations, and build alliances that facilitate improvement as we all push to build a citizenry with understanding and skills for confronting this existential challenge. Discuss what works and decide ways that educators can use eePRO for strong collaboration.  
**Presenter(s):** Jennifer Lynn Hubbard-Sanchez, Kentucky State University; Oksana Shcherba, Golden Gate National Parks Conservancy; Fletcher Brown, University of Montana; Jennifer Alldredge, Alliance to Save Energy; Marc LeFebre, Council for EE/Project WILD; Anne K. Armstrong, Cornell University

Strand: Connecting State EE Certification Programs and Environmental Literacy Plans  
**Table 3**  
The goal of this discussion is to generate ideas on how to connect two of the biggest EE initiatives being undertaken by states. Both involve major funding efforts, multiple partners, and new infrastructure. Currently there is little linkage between them, but how can we integrate them for greater impact?  
**Presenter(s):** Susan McGuire, McGuire Consulting; Sarah Haines, Towson University

Strand: Revisiting Life Paths: Memory and Lived Experiences  
**Table 7**  
This forum is centred around life paths revisited looking at how memories of the lived experience can focus academic work in environment and sustainability. Discussion will take place around childhood experiences as being motivators for major paradigm shifts and awakenings. These significant memories will be transferred through a range of modalities.  
**Presenter(s):** Amy Cutter-Mackenzie, Southern Cross University; Marianne Ruth Logan, Southern Cross University; Maia Osborn, Southern Cross University

Strand: Give the People What They Want: Obtaining Feedback From Your Audience  
**Table 4**  
This roundtable discussion will offer educators an opportunity to exchange ideas about surveying and understanding program participants and utilize audience feedback to enrich programs and educational goals that will better meet public interest and demand.  
**Presenter(s):** Judith Velosky, NYC Parks and Recreation

Strand: Public School Green Schoolyards for Enhanced Learning, Outside  
**Table 5**  
San Francisco Unified School District developed the nation’s first network of publicly funded green schoolyards. Education Outside has been partnering with SFUSD’s Facilities, Sustainability, and Science Departments to enhance site infrastructure, create SFUSD’s Green Schoolyard Guidelines, and help school communities effectively utilize these spaces for environmental and science learning.  
**Presenter(s):** Rachel Pringle, Education Outside

Strand: Results of a NOAA B-WET National Evaluation System Analysis  
**Table 6**  
The NOAA Bay-Watershed Education and Training (B-WET) program, a national grant program supporting Meaningful Watershed Education Experiences, has developed an evaluation system to assess funded projects’ outcomes and identify best practices. Learn about the results of an analysis of the first two years of data collection.  
**Presenter(s):** Bronwen Rice, NOAA; Michaela Zint, University of Michigan; Jennifer Carman, University of Michigan; Cathy Green, NOAA
Thursday 5:30 PM

Special Event
5:30 PM–6:45 PM, Ballroom A

HHMI BioInteractive Short Film Screening

Join us Thursday at 5:30 in the NAAEE Plenary Hall for a special movie event! Watch HHMI BioInteractive’s newest ecology short film, Some Animals Are More Equal Than Others: Keystone Species and Trophic Cascades. Come before the film to enjoy hors d’oeuvres and one free drink. Stay after the show for a Q&A with HHMI scientist-educators, Mark Nielsen and Bridget Conneely. RSVP in advance required.

Thursday 7:00 PM

Informal Gatherings
7:00 PM

Brewery Bus
7:00 PM–10:30 PM, Meet the bus outside the convention center main entrance

What better way to meet new colleagues than to spend your open evening networking over a few beers? Hop on the brewery bus and visit three Madison breweries, selected for their commitments to brewing craft beers using locally sourced ingredients. You’ll visit the Wisconsin Brewing Company, the Old Sugar Distillery, and the Great Dane Pub and Brewing Company. You can purchase a late dinner on your own at the last stop, which is within walking distance of the Convention Center. Advance registration is required. Tickets can be purchased at the registration desk as space permits.

University of Michigan School of Natural Resources & Environment
7:00 PM–8:30 PM, The Great Dane (123 E. Doty Street)

The University of Michigan’s School of Natural Resources & Environment invites all alumni as well as current and prospective students to a dinner hosted by Professor Michaela Zint at the Great Dane. Coordinator: Michaela Zint

WEBINAR SERIES

Bringing New Ideas and Innovation to the Field of EE

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More than 300,000 people every year experience the great outdoors through the Bureau of Land Management’s (BLM) youth education and engagement activities.

Over 80 BLM Hands on the Land sites get local school kids outside to learn on spectacular landscapes.

The BLM and Montana State University Project Archeology partnership offers professional development for heritage educators regionally and online.

BLM’s Junior Ranger Program fosters recreation, learning, and stewardship on public lands, amplifying awareness of BLM’s natural and cultural resources. Junior Ranger programs, activity books, and other materials engage youth and their families on public lands.

The Bureau of Land Management (BLM) uses environmental education to cultivate shared public land stewardship in the United States.

Learn how to partner with BLM in your state or local community and help us tell the public lands’ story.

Visit www.blm.gov/education or attend our NAAEE session:

Thursday, October 20, 2016
4:00 PM, Ballroom D
Friday

Early Morning

Rooftop Ramble and Garden Tour
7:30 AM-8:15 AM, Madison Children’s Museum, 100 N. Hamilton Street
Take a VIP tour of the Madison Children’s Museum’s Rooftop Ramble where native plants and edibles grow, chickens forage, and homing pigeons roost. Find out how the museum incorporates environmental education into its everyday practices and programs and take a peek at the myriad ways the Museum has reached LEED Gold certification. Meet at the front door to the Museum.

Morning Yoga
7:30 AM-8:15 AM, Ballroom D
Start your day off right with an easy to moderate flow that incorporates deep stretching, rejuvenating postures, and an eclectic musical selection with yoga instructor Tara Hostnik. After this class, you’ll feel relaxed, refreshed, and inspired for whatever the conference has in store for you!
Presenter(s): Tara Marie Hostnik, Sequoia Parks Conservancy

Friday 8:30 AM

The following sessions all start at 8:30 AM. The end times vary with the type of session as indicated. Ninety-minute sessions are listed first, followed by 40-minute sessions.

Strands
- Applying Research to Increase Our Impact
- Conservation and Environmental Education
- Educating for Sustainable Communities
- Green Schools
- Inspiring Connections to the Outdoors
- Leadership and Capacity Building
- Addresses Diversity, Equity, and Inclusion

Symposia
8:30 AM-10:00 AM

Quilting Vibrant Intersectional Feminisms: From Theory to Practice
8:30 AM-10:00 AM, Ballroom D
Come quilt recent EE research with gender, queer, ecofeminist, black feminist, feminist materialist, and critical theories. We introduce vibrant approaches to include marginalized voices. Together we discuss deeply and collaborate in arts-based engagement to bring these theories and findings to life, generating multilayered quiltings of intersectionality in EE learning and leadership.
Presenter(s): Marna Hauk, Institute for Earth Regenerative Studies & Prescott College; Jada Renee Koushik, University of Saskatchewan; Jesse Bazzul, University of Regina; Clare Hintz, Journal of Sustainability Education; Mandisa Wood, Napa Valley College
Moderator: Denise Mitten, Prescott College
Strand: 🌿
Solving the Diversity Deficit in EE: Pathways to Inclusion
8:30 AM-10:00 AM, Lecture Hall
A moderated panel discussion with representatives ranging from a small EE nonprofit to a federal agency will describe their successful efforts and pitfalls along the way, providing guidance for programmatic and organizational inclusion efforts. Discussion tables will follow the panel, and each participant will submit a plan for personal/organizational action.
Presenter(s): Dan Kunkle, Lehigh Gap Nature Center; Susan Bonfield, Environment for the Americas
Moderators: Gladys Ruiz, Audubon Society of Portland; C. Parker McMullen Bushman, Chincoteague Bay Field Station
Strand: ●

Hands-On Presentations
8:30 AM-10:00 AM

BirdSleuth: Connecting Students to the World of Birds
8:30 AM-10:00 AM, Hall of Ideas E
Learn how to make studying birds fun with the use of lesson plans, games, activities, and labs from the Cornell Lab of Ornithology's BirdSleuth team of Ithaca, New York. BirdSleuth programs inspire both environmental educators and their students to learn more about birds and why birds are important.
Presenter(s): Ian Martin, Florida Keys Wild Bird Center
Strand: ●

Connecting STEM to Native Science through Indigenous Arts and Sciences
8:30 AM-10:00 AM, Hall of Ideas F
Earth Partnership Indigenous Arts and Sciences is an integrated effort between tribal communities and collaborators who share a vision for engaging youth in science and the natural world through traditional cultural values. Experience activities reflecting multicultural perspectives on environmental stewardship and participate in a discussion about culturally relevant learning.
Presenter(s): Cheryl Bauer-Armstrong, University of Wisconsin-Madison Arboretum; Maria Moreno, University of Wisconsin Arboretum, Earth Partnership; Stephen Laubach, University of Wisconsin-Madison Arboretum; Reggie Cadotte, Red Cliff Band of Lake Superior Chippewa; Michelle Cloud, Ho-Chunk Nation
Strand: ●

Developing a Toolkit to Support Fundamental Climate Literacy
8:30 AM-10:00 AM, Hall of Ideas G
Fundamental Climate Literacy (FCL) refers to the ability to read and write texts about climate science. This skill is doubly important for climate change, where individuals may encounter communication intended to mislead. This workshop will provide the opportunity to practice and build a toolkit of strategies to support learners’ FCL.
Presenter(s): K.C. Collette Busch, Stanford University
Strand: ●

Traditional Presentations
8:30 AM-9:10 AM

Activities for the Anthropocene
8:30 AM-9:10 AM, Hall of Ideas H
Combine history and environmental science in this hands-on session exploring how humans have shaped the earth and atmosphere since the Industrial Revolution. Discover how to build interdisciplinary lessons that bring human ecology concepts into the social studies, math, and science classrooms.
Presenter(s): Howard Aprill, Wehr Nature Center
Strand: ●

Education Through Animation: Communicating Complex Topics Like Climate Change
8:30 AM-9:10 AM, Meeting Room R
Through a partnership between The Marine Mammal Center, a marine mammal hospital, and the California College of the Arts Animation Department, we provided animation students experience in producing scientific animations. The Center created animation videos that highlight the science of climate change and effects on marine mammals.
Presenter(s): Adam Ratner, The Marine Mammal Center
Strand: ●

Energy Efficiency to Mitigate Climate Change and Ocean Acidification (EECCOA)
8:30 AM-9:10 AM, Meeting Room MN
EECCOA is a project-based science education program of the MERITO Foundation. It provides energy, climate, and ocean literacy services to 8th-12th grade teachers and their students aligned to NGSS standards. EECCOA empowers students to address climate change and ocean acidification by providing them with the tools to research and design sustainability project proposals for their schools.
Presenter(s): Rocio Lozano-Knowlton, MERITO Foundation; Laura Mack, Neighborhood Council Sustainability Alliance
Strand: ●
Managing for Success
8:30 AM-9:10 AM, Meeting Room OP
Finding high quality employees for your nature center, park, or school is only the beginning. How effectively you are able to train, motivate, encourage, empower, and advance your staff will ultimately determine your success as an organization.
Presenter(s): Tom Finley, Schlitz Audubon Center

Providing a Gateway to Nature for Underserved Populations
8:30 AM-9:10 AM, Hall of Ideas J
Constructing a model through partnerships to increase access to nature for underserved children and families through the creation of nature-rich outdoor classrooms. Learn how the Nature Explore Classroom provided a gateway from an urban community center to a National Wildlife Refuge engaging an entire community in the process—including youth!
Presenter(s): Jennifer Owen-White; Julie Rose, Dimensions Educational Research Foundation/Nature Explore; Joseluis Ocaranza, U.S. Fish and Wildlife Service

The Bucket Brigade: Reaching Farther Through Partnerships
8:30 AM-9:10 AM, Meeting Room Q
The Bucket Brigade, a joint effort by a local nonprofit and governmental agency, offers free interpretive tours of the coastal environment in Galveston, Texas. The Bucket Brigade invests in the community by engaging historically underrepresented members of the community and enhancing Galveston's sense of place among resident and tourist populations.
Presenter(s): Amanda Rinehart, Artist Boat

Understanding Every Student Succeeds Act Funding for State Environmental Education
8:30 AM-9:10 AM, Meeting Room KL
The Every Student Succeeds Act, which replaced No Child Left Behind, permits states for the first time to spend federal education dollars for environmental education. Join other state leaders to discuss strategies and tactics for working with your school systems to spend some of these funds on environmental education.
Presenter(s): Sarah Bodor, NAAEE

Bright Spots
8:30 AM-9:10 AM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room
1) Citizen Science and Service Learning for Pre K-8 Classrooms
Citizen Science and service learning projects engage preschool and underrepresented students in real-world science projects, increasing student interest in science. Learn how to participate in existing scientific research, while creating investigations in your own school and schoolyard. Resource documents will be provided and participants will practice collecting data.
Presenter(s): Mary Norell Hedenstrom, St. Catherine University; Patty Born-Selly, Hamline University

2) Enhancing Environmental Education Lessons Using Publicly Available Datasets
This bright spot talk will explore two online, publicly available data platforms for use by formal educators, though examples for nonformal educational settings will be shown. Integrating real-world data into lessons can enhance STEM concepts through critical thinking and allow users to explore their local environment.
Presenter(s): Natalie Marioni, National Great Rivers Research & Education Center

3) Help Teachers Bring Research into the Classroom With Trail Cameras
Learn how one conservation facility is helping teachers bring citizen science into the classroom with trail camera footage! This session will show how to create simple research projects for students to engage them beyond the field trip.
Presenter(s): Lauren Watkins, White Oak Conservation
Roundtable Discussions
8:30 AM-9:10 AM, Ballroom C

Be Litter Free, a Youth-Led STEM Initiative
Table 1
Keep America Beautiful’s youth advisory council program is designed to help youth create and measure behavior change that impacts their community environment. We will share the tools and stories behind the newest KAB Litter Free initiative and how to connect youth for a cleaner, greener community.
Presenter(s): Cheryl T. Boyette, Boyette Consulting/Adjunct SFASU

Education Coaches: An Innovative Model to Reach Educators and Communities
Table 2
Who doesn’t need a coach? Teachers Going Green Education Coaches encourage educators to expand the reach of environmental education in Iowa’s schools. Meet our energetic coaches, hear their role in the implementation of Next Generation Science Standards, and learn how your program could benefit from coaches.
Presenter(s): Sara Lockie, Keep Iowa Beautiful—Teachers Going Green; Shelly Johnson, Next Step Adventure

Environmental Education Certification: Why Recertify and the Different Options in Different States
Table 3
Environmental Educator Certification has been in practice for a while, and now active programs are recertifying their participants. Why is this important? Why do different programs have different recertification requirements, especially timeframes? Join us as representatives from these programs discuss their state’s recertification strategy.
Presenter(s): Wesley Bullock, Kentucky Environmental Education Council (KEEC); Jennifer Bucheit, Old Woman Creek NERR; Katie M. Navin, Colorado Alliance for Environmental Education

Goal-Based Environmental Education to Effectively Learning Outside the Classroom
Table 4
The nature center model operated by the Taiwan Forestry Bureau has shifted the way students learn in the classroom toward using the environment as a context for curriculum-based learning. This study was conducted to understand whether children in rural and urban areas of Taiwan have distinct responses to these EE objectives.
Presenter(s): Yi-Hsuan Hsu, Aletheia University

How to Write for Environmental Education Publications
Table 5
Many conservation and environmental educators are excellent verbal communicators. Fewer have the skills—or have had enough practice—to be effective written communicators. This session will introduce techniques for lively conservation writing for popular magazines and newsletters that engages audiences.
Presenter(s): Tim Grant, Green Teacher

Table 6
This hands-on workshop is designed to introduce the Nature’s Notebook long-term phenology monitoring program to educators teaching connections among modern technology, science skills, humans, and climate change. It appeals to teacher and student desires to be connected to the natural and cyber-world, while contributing valuable information to climate change research.
Presenter(s): LoriAnne Barnett, USA National Phenology Network

Overcoming Barriers to Being Green: A Green Schools Ambassador Program
Table 7
How do you help schools overcome barriers to becoming a Green School? This presentation looks at a pilot program by Florida Atlantic University Pine Jog to provide mentors to Palm Beach and Martin County schools. Lessons learned will be discussed, and tools to start your own program will be shared.
Presenter(s): Anne Margaret Henderson, Florida Atlantic University Pine Jog Environmental Education Center; Lauren Butcher, Florida Atlantic University Pine Jog Environmental Education Center

Strand:
Teach Inquiry-Based Ecology with a Citizen Science Trail Camera Project

Table 8

Scientists in Gorongosa National Park, Mozambique, are tracking lions using remote trail cameras. HHMI BioInteractive developed a new online platform for exploring trail camera data generated by citizen scientists. In this presentation, participants will do hands-on activities using trail camera photos and data to teach about ecology and scientific inquiry.

Presenter(s): Bridget Conneely, Howard Hughes Medical Institute

Strand:

Friday 9:00 AM

Meetings

9:00 AM-11:00 AM

NAAEE Board Meeting

9:00 AM-11:00 AM, Wisconsin Room

NAAEE Board Meeting

A working meeting for the NAAEE Board of Directors.

Friday 9:20 AM

The following sessions are all 40-minute sessions that start at 9:20 AM and end at 10:00 AM.

Traditional Presentations

9:20 AM-10:00 AM

Create Green and Sustainable Early Childhood Centers with PLT GreenSchools

9:20 AM-10:00 AM, Hall of Ideas J

Try out Project Learning Tree’s new GreenSchools investigations and preview online professional development that meets the needs of early childhood educators. We will share 5 GreenSchools Investigations that teach young children about their environment and how they can make a difference, while developing their skills in language, mathematics, and science.

Presenter(s): Kathy McGlauflin, Project Learning Tree; James Riley McGirt, Project Learning Tree

Strand:

Medical Center’s Unique Outdoor Classroom Links Nearby Nature with Better Health

9:20 AM-10:00 AM, Hall of Ideas H

A unique project at a medical clinic is putting health/nature research into practice. Lone Star Family Health Center, which serves underserved children and families, has created a Nature Explore Classroom. Physicians prescribe time in this nature-rich space which then serves as a springboard for patients to connect with nearby forests/parks.

Presenter(s): Susan H. Wirth, Dimensions Educational Research Foundation and Arbor Day Foundation; Jane Chang, National Environmental Education Foundation; Sue Cummings, USDA Forest Service

Strand:

More Than Environmental Education: Teaching Pedagogy Using EE

9:20 AM-10:00 AM, Meeting Room OP

Can vicarious experiences with sound educational practices impact teacher candidates’ perceptions of pedagogy, technology integration, and environmental issues? Survey results collected over several years will be presented addressing how candidates’ perceptions are influenced by a technology course using EE as foundational curriculum. We will explore the impact beyond this session.

Presenter(s): Brenda Weiser, University of Houston-Clear Lake; Jana M. Willis, University of Houston-Clear Lake

Strand:

Open Source Online GIS to Teach Watershed Modeling

9:20 AM-10:00 AM, Meeting Room R

Learn how you can use a new online GIS tool to help students and citizens learn about the impacts of land cover, land use, and conservation practices. Model My Watershed is part of the Wikiwatershed.org toolkit. Pilot curriculum research will be shared from implementation by 75 teachers in five states.

Presenter(s): Steve C. Kerlin, Stroud Water Research Center; Tara Muenz, Stroud Water Research Center

Strand:
Show Us What You’ve Got: Give Employers a Reason to Google You
9:20 AM–10:00 AM, Meeting Room KL
Google yourself. What comes up? Is it your LinkedIn, Facebook, Twitter, or E-portfolio? Learn how to take stock of your professional digital presence. Come prepared with your current resume and be ready to discuss how you utilize digital tools that encourage employers to seek you out.
Presenter(s): Carly Swatek, Riveredge Nature Center; Cassie Bauer, Riveredge Nature Center

The Science of Resilient Communities: A Collaborative Partnership for At-Risk Youth
9:20 AM–10:00 AM, Meeting Room Q
The urban setting of Madison, WI provided the backdrop for a partnership between two local nonprofits and a middle school. Students participated in a year-round curriculum focused on the importance of community resilience in the natural world and human society. Learn the challenges and benefits of this collaborative project.
Presenter(s): Virginia Wiggen, Aldo Leopold Nature Center; Hong Tran, Madison Metropolitan Schools; Sonya Sankaran, Public Health Madison and Dane County, Center for Resilient Cities

Urban Environmental Education: Resources and Lessons from EECapacity
9:20 AM–10:00 AM, Meeting Room MN
Five years ago, EECapacity set out to help the field of EE adapt to a world where most people live in cities. Learn about our online courses, eBook, state capacity building, and a soon-to-be-published textbook, and how they have created new possibilities for EE in cities.
Presenter(s): Marianne Krasny, Cornell University

Bright Spots
9:20 AM–10:00 AM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room

1) Environmental Education in Preservice Teacher Education
The Arizona State University Environmental Education Program of Distinction Certificate promotes excellence in environmental education and serves environmental educators for the purpose of achieving environmental literacy in order for present and future generations to benefit from a safe and healthy environment and a better quality of life.
Presenter(s): Molina Walters, Arizona State University; Hilary Goodine, EDUPRIZE—Queen Creek

2) Growing Naturalists: Immersive Environmental Education Experiences in Graduate Education
What better way to develop as an environmental educator than to immerse yourself in an environment that blends theory and practice? Wolf Ridge and Antioch University New England’s new graduate programming facilitates students’ ability to live and learn in an environment that focuses on community, models sustainability, and promotes intentional educational practice.
Presenter(s): Shannon Walz, Wolf Ridge Environmental Learning Center; Elizabeth (Libby) P. McCann, Antioch University New England

3) Transforming School Systems Through the Riveredge Naturalist in Residence Program
Through the innovative Naturalist in Residence program, Riveredge Nature Center is placing a fully funded environmental educator in a local school system for five years. Our goal is to mentor and support teachers so they feel comfortable engaging students in frequent, multi-disciplinary outdoor learning experiences in their schoolyard.
Presenter(s): Sunny Knutson, Riveredge Nature Center

Applying Research to Increase Our Impact  ●  Conservation and Environmental Education  ●  Educating for Sustainable Communities
Green Schools  ●  Inspiring Connections to the Outdoors  ●  Leadership and Capacity Building  ●  Diversity, Equity, and Inclusion
**Roundtable Discussions**
9:20 AM–10:00 AM, Ballroom C

**Aligning NGSS, Social Studies, Environmental Literacy Strands—Oregon’s Guiding Documents**

**Table 1**
Aligning EE to standards is best practice, and environmental literacy involves science AND humanities. Discuss Oregon’s guiding documents, which align NGSS, Social Studies Standards, and Environmental Literacy Strands. Essential and guiding questions connect standards for each grade. The documents are designed to help teachers coordinate scope and sequence of K–12 EE activities.

Presenter(s): Steven Braun, Lane County STEM Hub; Aprovecho Center for Research and Education in Sustainability

**Diversity in Nature Narratives: Resisting Master Scripts in Environmental and Conservation Education**

**Table 2**
How do common EE narratives about nature function as master scripts? Are these narratives alienating to communities with diverse experiences and perspectives about the natural world? This discussion will focus on how intentionally cultivating a polyculture of nature narratives may be an impactful step towards supporting diversity initiatives in EE.

Presenter(s): Tallie Segel, Northern Arizona University

**Education for Sustainable Development for Emergent and Early Fluent Readers**

**Table 3**
By using carefully selected children’s books as basis for in-depth studies, teachers and schools can support inquiry-based learning in a recurring and interrelated fashion. A wide range of constructs embedded within the realm of environmental education can be explored in further detail through carefully selected children’s books.

Presenter(s): Yash Bhagwanji, Florida Atlantic University

**Engaging Youth in Climate Change**

**Table 4**
Climate Generation (CG) discusses their work in engaging youth in climate change. CG provided climate literacy to two groups, but engaged them in different ways. One group benefitted from deep conversation, while the other enjoyed detailed presentations on climate change topics. Learn why engaging youth in climate change is so important to inspire climate hope.

Presenter(s): Jenna Totz, Climate Generation: A Will Steger Legacy

**Environmental Education in Teacher Education Programs: Sharing Strategies**

**Table 5**
Teacher educators have the opportunity to influence others to teach environmental education. In this session, higher education faculty members will share how they move from inspiration to impact. In other words, what do they do now to encourage environmental education integration in preservice teachers’ future classrooms?

Presenter(s): Scott Ashmann, University of Wisconsin–Green Bay; Jeanine Huss, Western Kentucky University; Paula Kleintjes Neff, University of Wisconsin–Eau Claire Biology Department; Molly Gerrish, University of Wisconsin–River Falls

Moderator: Rebecca Lee Franzen, University of Wisconsin–Stevens Point Central Wisconsin Environmental Center

**Hiding Among the Trees: Project Learning Tree Survey of Use**

**Table 6**
This research investigated how the Project Learning Tree (PLT) curriculum materials are being used and if a correlation exists between the amount of PLT professional development and the use and impact of the PLT curriculum materials. The results will be used to make improvements to the PLT curricula.

Presenter(s): David Allen, Texas A&M International University

Moderator: Rebecca Lee Franzen, University of Wisconsin–Stevens Point Central Wisconsin Environmental Center
Staffing Your Affiliate: Are You Ready to Take the Leap?

Table 7
Join other Affiliate leaders for a roundtable discussion on how to prepare for, recruit, and hire qualified staff for your organization. Learn from other Affiliates who have successfully hired and sustained staff. This session is geared toward Affiliates that are run by volunteers or part-time staff that are looking to expand their capacity.

Presenter(s): Ashley Hoffman, Kentucky Association for Environmental Education; Laura Downey, Kansas Association for Conservation and Environmental Education

Strand: Teens Driving Conservation Action: Lincoln Park Zoo’s Conservation Ambassadors Board

Table 8
Interested in teen programing but reluctant to give teens a leadership role? Join us for a roundtable discussion highlighting different ways to effectively incorporate teens into your programs along with planning and designing teen programs to help guide them toward becoming better leaders within their community.

Presenter(s): Jamie Herget, Lincoln Park Zoo

Strand:

Friday 10:00 AM

Coffee Break
10:00 AM-10:30 AM, Grand Terrace

Friday 10:30 AM

The following sessions are all 40-minute sessions that start at 10:30 AM and end at 11:10 AM.

Traditional Presentations
10:30 AM-11:10 AM

All About Arsenic: Monitoring Well Water Safety in Rural Maine
10:30 AM-11:10 AM, Meeting Room R
High arsenic levels in drinking water have been linked to a variety of health problems in Maine. Seventh and eighth grade students at Blue Hill Consolidated School collected water samples from wells at their homes to learn more about arsenic levels in their own drinking water.

Presenter(s): Nell Herrmann, Blue Hill Consolidated School

Strand:

Carbon in the Atmosphere: Climate Change and Global Forests
10:30 AM-11:10 AM, Hall of Ideas H
Rainforest Alliance shares lessons to help students discover the relationship between CO₂ and Earth’s climate, the carbon cycle, and the important role of forest communities.

Presenter(s): Maria Ghiso, Rainforest Alliance

Strand:

E-CORP: Educational Connections to Ongoing Research Projects—Florida Atlantic University
10:30 AM-11:10 AM, Hall of Ideas I
Florida Atlantic University Pine Jog Educational Connections to Ongoing Research Projects (E-CORP) introduces students to the world of scientific research. Through collaboration with university research departments and by incorporating education elements into grant proposals, E-STEM research education is made available to middle- and high school-aged students for both classroom and field based learning.

Presenter(s): Ray F. Coleman, Florida Atlantic University Pine Jog Environmental Education Center; Christopher Andrew Hill, Florida Atlantic University Pine Jog Environmental Education Center

Strand:

EPA Education Office Strategic Planning Process: Continuing to Engage Stakeholders
10:30 AM-11:10 AM, Hall of Ideas J
EPA’s Office of Environmental Education (OEE) will update participants on where we are with developing our new strategic plan. We will then engage our stakeholder audience in an open discussion on the important issues and trends in EE.

Presenter(s): Ginger Potter, U.S. Environmental Protection Agency

Strand:

Expanding Access to EE through School District Environmental Literacy Plans
10:30 AM-11:10 AM, Hall of Ideas E
The responsibility of achieving environmental literacy cannot rest on one school or organization alone. ChangeScale, a collaborative in the San Francisco Bay Area, is forging community partnerships to expand access to EE while supporting the vision of the NGSS. Join us to explore strategies for developing district-wide environmental literacy plans.

Presenter(s): Kirk Anne Taylor, ChangeScale; Jedda Foreman, Lawrence Hall of Science

Strand:
Greening the Literature Classroom: Rooting High School Readers in The Literary Garden  
10:30 AM-11:10 AM, Meeting Room Q  
Fed up with the four walls and fluorescent lights of her classroom, English teacher Jennifer McQuillan found a way to connect her students to American writers and the nature that inspired them—The Literary Garden. Come hear about the process and interdisciplinary possibilities of greening the study of literature.  
Presenter(s): Melissa Talhelm, Southern Connecticut State University; Jennifer McQuillan, West Bloomfield High School  
Strand:  
Guidelines for Engaging Communities  
10:30 AM-11:10 AM, Meeting Room KL  
EECapacity and NAAEE are developing a set of guidelines, focusing on community wellness, which will help environmental educators create inclusive environments that support effective partnership and collaboration building. The guidelines will describe key factors, and provide case examples, exercises, and references. Come hear about this new set of guidelines.  
Presenter(s): Augusto Medina, Consultant; Bora Simmons, National Project for Excellence in Environmental Education  
Strand:  
Innovative Interdisciplinary Local Water Systems Education for Diverse Learners  
10:30 AM-11:10 AM, Hall of Ideas F  
What happens when social studies, science, math, and language arts collaborate to provide students with a wet, smelly, deep-dive into the community water system? Learn how students in a diverse, Madison middle school turned neighborhood field trips, labs, and activities into in-depth understanding and outreach to (bilingual) families.  
Presenter(s): Sara Krauskopf, MMSD/University of Wisconsin-Madison; Aaron Kaio, Shabazz High School  
Strand:  
Promoting High School Students’ Interest in Natural Resource and Environmental Career Paths  
10:30 AM-11:10 AM, Meeting Room OP  
We created a program to provide 20 Detroit high school youth with a free opportunity to experience Michigan’s Upper Peninsula and the campus of a natural resource university. Students completed pre/post surveys to measure changes in their interest in natural resource careers. We will share lessons learned.  
Presenter(s): Joan Chadde Schumaker, Michigan Technological University  
Strand:  
Small Actions Add Up: Investigations in Energy Efficiency for Students  
10:30 AM-11:10 AM, Ballroom D  
Opportunities for students to solve real world challenges meet growing demands for project- and STEM-based learning. Schools are uniquely poised to meet learning and energy efficiency outcomes. Many schools struggle to change inefficient energy-related habits. Through Student Energy Audit Training students identify issues, create student-faculty-staff teams, implement changes, and discover green careers.  
Presenter(s): Annie Baker, Wisconsin K-12 Energy Education Program (KEEP); Jennifer Alldredge, Alliance to Save Energy  
Strand:  
Spinning the Tale of a Fish and a Place With Story Maps  
10:30 AM-11:10 AM, Hall of Ideas G  
The book People of the Sturgeon tells a story embedded in a particular place—the Lake Winnebago region of Wisconsin where the ancient lake sturgeon now thrive. Using ESRI’s Story Map Journal, the tale of their recovery is told using geography to organize and present the book’s source materials.  
Presenter(s): Anne Moser, University of Wisconsin-Madison; Kathy Kline, University of Wisconsin Sea Grant Institute  
Strand:  
Ways Collaborative Partnerships Can Produce Culturally Rich EE Learning Experiences  
10:30 AM-11:10 AM, Meeting Room MN  
Learn about innovative programs that build collaborative partnerships and address sustainability, climate change, and other broader learning objectives. Think about what’s needed of program leaders to be able to successfully initiate, develop collaborative relationships with, and build nonformal EE programs with partners from different socioeconomic, racial, and cultural backgrounds.  
Presenter(s): Karen S. Hollweg, Fulbright Specialist  
Strand:
Bright Spots
10:30 AM-11:10 AM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room

1) CondorKids: Partnership, Deliverables, & Access
The CondorKids project links 3rd grade students to the California Condor Recovery Program. This session traces the project from cultivating key partnerships, to the development of a comprehensive curriculum with NGSS/CC-aligned lessons, field experiences, materials, a mobile game, teacher training, and evaluative components. Best of all, it’s replicable.
Presenter(s): Aaron Marshall, Santa Barbara Zoo

2) Groundswell and PBS Learning Media Partnership: Accessible Environmental Education Resources
Grand Valley State University’s College of Education is the first to partner with PBS Learning Media. Gain access to free environmental education resources and learn about the innovative collaboration that has allowed Groundswell and the Michigan Department of Environmental Quality to distribute lesson plans and video lesson demonstrations nationwide.
Presenter(s): Clayton Pelon, Grand Valley State University

3) “Inquiry, Exploration, and Service Learning in the Sagebrush Ecosystem” Workshop
Explore this exciting new curriculum with supporting resources developed by the U.S. Fish and Wildlife Service, Engaging Every Student, Audubon Rockies, Bureau of Land Management, and partners. Learn hands-on strategies to help grade 4-8 students think critically about the sagebrush ecosystem and ways to protect the diverse species found there.
Presenter(s): Rick Reynolds, Engaging Every Student; Jacelyn Downey, Audubon Rockies

Roundtable Discussions
10:30 AM-11:10 AM, Ballroom C

Citizen Science for Conservation in the Americas: Theory to Practice
Table 1
The Cornell Lab of Ornithology has developed partnerships throughout the Americas to help engage diverse, underserved audiences in citizen science efforts that contribute to science, support bird conservation, and create hands-on environmental learning opportunities. This session will address the challenges and opportunities around translating citizen science theory into practice.
Presenter(s): Lilly Briggs, Cornell University

Continuing the Conversation: Solving the Diversity Deficit in EE
Table 2
This roundtable discussion is designed as a follow up to the Solving the Diversity Deficit in EE panel session. The panel addressed diversity issues and gave participants tools to create an action plan for inclusion within their organizations. All are welcome whether you are new to the discussion or interested in continuing the conversation.
Presenter(s): C. Parker McMullen Bushman, Chincoteague Bay Field Station; Dan Kunkle, Lehigh Gap Nature Center

Creating Meaningful Watershed Educational Experiences in the Great Lakes
Table 3
The Great Lakes B-WET program is administered by NOAA and funded by the EPA through the Great Lakes Restoration Initiative. Come learn about how this program addresses the unique environmental challenges of the region through locally relevant, experiential activities that include learning both outdoors and in the classroom.
Presenter(s): Cathy Green, NOAA; Bronwen Rice, NOAA

Honoring Linguistic and Cultural Identities to Cultivate Sustainable Communities
Table 4
Four Milwaukee Latinas in EE fields talk about what sustainability means to them and how honoring linguistic and cultural identities can cultivate sustainable communities. Work towards making EE more culturally relevant by talking about the tough truths related to white privilege and marginalized populations.
Presenter(s): Cynthia Gonzalez, Escuela Verde; Nayla Bezares, Escuela Verde; Moderator: Joey Zocher, Escuela Verde
How Adults Support Development of Young Children’s Sense of Place

Table 5
Adults are gatekeepers for young children’s access to the outdoors and hence play critical roles in their relationships with nature. The presenter will share examples from several nature learning programs about how adults support young children’s positive relationships with nature, laying a foundation for a strong sense of place.
Presenter(s): Deepti Kharod, The University of Texas, San Antonio
Strand: ●

It Starts With Us: Reigniting Our Spark for Nature

Table 6
As passionate urban environmental educators, it’s easy to dive too deep into administrative duties and forget to appreciate the outdoor environment around us. Join us in discussing a recent study on this and explore the practice of reconnecting ourselves to nature and reigniting our love of it in the workplace.
Presenter(s): Carrie S. Harding, Arizona Center for Nature Conservation
Strand: ●

Tell Your Story: Marketing and Branding in EE Affiliates

Table 7
How well are you telling your Affiliate’s story? How could you improve your marketing to attract new members and supporters? Join us to explore challenges, ideas, and strategies to effectively market and brand your Affiliate locally and align to regional and national branding efforts.
Presenter(s): Sarah Bodor, NAAEE; Katie M. Navin, Colorado Alliance for Environmental Education; Noah Manduke, Durable Good
Strand: ● naaee Affiliate

Friday 11:30 AM

Keynote
11:30 AM-12:30 PM, Ballroom AB
Aimee Nezhukumatathil
Floating Above this Difficult World: The Importance of Writing the Outdoors with Wonder
See page 32 for more information.

Friday 12:30 PM

Lunch—On Your Own
12:30 PM-2:00 PM

Meetings
12:30 PM-2:00 PM
U.S. Fish and Wildlife Service Meeting
Friday, 12:30 PM-2:00 PM, Wisconsin Room
By invitation.
Coordinator: Drew Burnett

Friday 12:45 PM

Community Service Project
12:45 PM-2:15 PM, Meet outside the Convention Center front entrance
Volunteer for NAAEE’s annual community service project at Goodman Youth Farm of Community GroundWorks. Space is limited and sign-ups at the Information Station are required.
Coordinator: Jennica Skoug, Community GroundWorks
See page 23 for more information.

A Promising Step to Elevate the Importance of EE Globally

Read about it on:
naaee.org/news/eenews
Friday 1:00 PM

**eePRO Groups Brown Bag Lunch Meetings**
1:00 PM–2:00 PM

Whether you’re a current member or want to develop new networking opportunities, bring your lunch and join one of NAAEE’s eePRO Group meetings.

See page 17 for more information.

**Advocacy, Ballroom C, Table 1**
**Climate Change, Hall of Ideas E**
**Conservation and Behavior Change,**
**Ballroom C, Table 3**
**Diversity, Equity, and Inclusion, Hall of Ideas F**
**Early Childhood, Hall of Ideas G**
**Global EE, Hall of Ideas H**
**Green Schools, Ballroom C, Table 6**
**Guidelines for Excellence, Ballroom C, Table 8**
**Higher Education, Hall of Ideas I**
**Research and Evaluation, Hall of Ideas J**

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**Friday 2:15 PM**

The following sessions all start at 2:15 PM. The end times vary with the type of session as indicated.

**Special Sessions**
2:15 PM–3:15 PM

**Writing the Outdoors: A Writing Workshop with Keynote Aimee Nezhukumatathil**
2:15 PM–3:15 PM, Dane Room

We’ll participate in several immersion ideas for poems and journaling (some outdoors, weather permitting) to help you explore the natural world through poetry. Our time will be divided into composing drafts and discussion. This class is ideal for both the beginner and someone wanting a quick refresher in creative writing. (Limited to 12 participants, selected by lottery)

**Presenter(s):** Aimee Nezhukumatathil

**NAAEE Evaluation Clinic**
2:15 PM–3:45 PM, Ballroom C

Do you have questions about evaluation or assessment? Bring them to NAAEE’s third annual Evaluation Clinic, where you can ask questions of the experts and contribute your own relevant experience. Learn from evaluation experts as well as peers through informal, roundtable conversations.

**Presenter(s):** Michaela Zint, University of Michigan; Nicole Ardoin, Stanford University; John Baek, NOAA Office of Education; Matthew H. Browning, University of Illinois; Dave Chase, DRC Consulting, LLC and PEER Associates, Inc.; Julie Ernst, University of Minnesota, Duluth; Joe E. Heimlich, Institute for Learning Innovation; Christine (Jie) Li, University of Missouri; Thomas J. Marcinkowski, Florida Institute of Technology; Elizabeth (Libby) P. McCann, Antioch University New England; Martha C. Monroe, University of Florida; Bora Simmons, National Project for Excellence in Environmental Education; Kathryn Stevenson, North Carolina State University

**Strand:**

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**Symposia**
2:15 PM–3:45 PM

**Partnerships for Creating Whole-School Sustainability**
2:15 PM–3:45 PM, Ballroom D

Schools are struggling to adapt to 21st century learning and integrate sustainability and environmental concepts into their operations and curriculum. Learn more about how to become a change agent at your school to engage students, facilities managers, and district administrators in environmental education and greening your school.

**Presenter(s):** Kathy McGlauflin, Project Learning Tree; Sharon Jaye, Green Schools Alliance

**Strand:**

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**The Future Acting Now—Today’s Youth Environmental Leadership**
2:15 PM–3:45 PM, Lecture Hall

Let the power of a youth’s voice inspire. Hear from K-12 and university students and young professionals engaging in youth-led, grassroots community efforts to build a more sustainable future. Presentations will demonstrate different strategies offered through the University of Wisconsin-Stevens Point to support and help develop youth leaders statewide.

**Presenter(s):** Sara Windjue, Wisconsin K–12 Energy Education Program (KEEP); Susan Schuller, University of Wisconsin-Stevens Point; Jordan King, University of Wisconsin-Stevens Point Central Wisconsin Environmental Center

**Strand:**

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FRIDAY

Hands-On Presentations
2:15 PM-3:45 PM

Create Meaningful Messages Not Monsters with Discovery Agents’ Smartphone Platform
2:15 PM-3:45 PM, Hall of Ideas I
Are people playing Pokemon at YOUR park? Join the U.S. Forest Service and Coca-Cola Foundation in exploring how mobile gaming can connect kids with interpretive content with Discovery Agents! Bring your laptop and mobile device and create, publish, and play Discovery Agents in this session!
Presenter(s): Chris Holmes, Discovery Agents; Sandy Frost, USDA Forest Service; Nancy Limon, Coca-Cola Foundation

Introducing BEETLES, an Innovative Professional Learning Model
2:15 PM-3:45 PM, Hall of Ideas G
BEETLES (free) resources have been specifically designed to bring research-based best practices to environmental education programs. All our resources have been thoroughly tested in a variety of programs. You’ll experience excerpts from the BEETLES Questioning Strategies professional learning session, as well as from a BEETLES student field activity.
Presenter(s): Kevin Beals, Lawrence Hall of Science, BEETLES (Better Environmental Education, Teaching, Learning, & Expertise Sharing); Jedda Foreman, BEETLES Project

Your Buggy Backyard: Connecting with Native Insects
2:15 PM-3:45 PM, Hall of Ideas H
Wherever you are, native insects abound nearby. In this session, we’ll explain why you should incorporate these abundant and readily available creatures into your education programs. Using an interactive format, we’ll share resources, activities, tips, and techniques to help you teach with creepy, crawly, charismatic critters near you!
Presenter(s): Elizabeth E. Kautz, The Caterpillar Lab; Samuel Jaffe, The Caterpillar Lab

Traditional Presentations
2:15 PM-2:55 PM

Education—Key to Sustainable Weatherization
2:15 PM-2:55 PM, Meeting Room R
Many families struggle managing high utility bills while living in aging and uncomfortable homes. There are many ways to gain control through simple energy efficiency/conservation and weatherization practices. This session will review the Knoxville (TN) Extreme Energy Makeover program and how education and empowerment are key for successful weatherization programs.
Presenter(s): Jennifer Alldredge, Alliance to Save Energy

Financing Green Schools in Low-Income Communities
2:15 PM-2:55 PM, Meeting Room Q
This session will explain the details of an innovative funding plan for green school financing in low-income communities using the Community Reinvestment Act (CRA). Find out how we can provide safe, healthy, green schools to children who need it the most!
Presenter(s): Karena Mary Ruggiero, Earth Day Network
Fostering the Next Generation of EE Professionals
2:15 PM–2:55 PM, Meeting Room MN
Join the Friends of Tryon Creek as we explore how we can empower high school students to take on leadership roles, pursue environmental education as a profession, and be lifelong learners who are dedicated to providing inclusive and accessible environmental education in their communities.
Presenter(s): Erin Cathcart, Friends of Tryon Creek State Park

Framing Water Issues: NAAEE’s Environmental Issues Forums
2:15 PM–2:55 PM, Meeting Room KL
Learn how teams from five states are engaging their communities in public discussions about water issues. As part of NAAEE’s Environmental Issues Forums, created in partnership with the Kettering Foundation, these teams developed and tested state-specific frameworks that promote public and classroom deliberation.
Presenter(s): Billy Bennett, Eastern Kentucky University; Melinda Wilder, Eastern Kentucky University; Jeremy Solin, University of Wisconsin Cooperative Extension; Melissa Arthur, Kansas Association for Conservation & Environmental Education (KACEE); Jennifer Lynn Hubbard-Sanchez, Kentucky State University; Sarah R. Johnson, Colorado Foundation for Water Education; Jesse Haney, Wisconsin Environmental Education Foundation

How Nature Play Supports STEM Thinking Skills and Conceptual Understanding in Early Learners
2:15 PM–2:55 PM, Meeting Room OP
We can often get more support for our nature play programs by articulating their academic value as well as their many other benefits. Identify the STEM thinking skills and practices inherent in young children’s nature play, and learn how to intentionally deepen STEM learning through nature
Presenter(s): Patty Born-Selly, Hamline University

Bright Spots
2:15 PM–2:55 PM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room
1) Development of Professional Networks Among Environmental Educators
Professional development programs provide an opportunity for environmental educators to connect with each other to exchange ideas and resources. How do educators connect? Who are central players and who are brokers? We conduct surveys and social network analysis to investigate network change among educators and provide suggestions for future collaboration.
Presenter(s): Yue Li, Cornell University

2) EECapacity: What Have We Learned About Social Innovation in EE?
EPA’s National EE Training Program, EECapacity, was designed around the hypothesis that creating online and face-to-face platforms for professionals to exchange ideas and practices will lead to innovations in EE practice that reflect U.S. urban demographics. Learn what we have discovered about professional networks and innovation from our work.
Presenter(s): Marianne Krasny, Cornell University; Anne Umali Ferguson, Cornell University

3) Innovation in EE Practice
Participants in the EECapacity urban EE online learning community, climate change fellowship, and state consortia produced an eBook and other resources for the field, and formed ongoing networks, which can be considered social innovations. The programs varied in how much they changed their individual EE practices.
Presenter(s): Rupu Gupta, New Knowledge Organization
Friday 3:05 PM

The following sessions are all 40-minute sessions that start at 3:05 PM and end at 3:45 PM.

Traditional Presentations
3:05 PM–3:45 PM

Courageous Conversations to Create and Maintain a Diverse Workforce
3:05 PM–3:45 PM, Hall of Ideas J
Youth Outside has been championing change in environmental education by building the capacity of organizations to have difficult and needed conversations about diversity, equity, and inclusion. Join us to learn about our capacity building programs, and ways to incorporate what we have learned to create a more equitable and inclusive workplace.
Presenter(s): Kim Moore Bailey, Youth Outside
Strand:  

Engaging Taiwanese Youth in Place-Based Environmental Controversial Issues Discussions
3:05 PM–3:45 PM, Meeting Room R
This study explores how middle school students deliberate over a highly contested environmental controversy in a remote coastal wetland area in western Taiwan. Tremendous political polarization has resulted in this topic becoming taboo, creating a vital opportunity for education to pave the way for democratic discussions.
Presenter(s): Yun-Wen Chan, University of Wisconsin–Madison
Strand:  

Environmental Literacy Plans Networking Session on Development, Adoption, and Implementation
3:05 PM–3:45 PM, Meeting Room KL
The knowledge base about state Environmental Literacy Plan “life cycles” has deepened dramatically in the past few years. Join us for an open discussion about the experiences of states across the U.S. to help you develop ideas and solutions to address environmental literacy opportunities and challenges in your state.
Presenter(s): Sarah Bodor, NAAEE; Brock Morris Adler, Consultant
Strand:  

Inclusive Early Childhood Environmental Education: Supporting Diverse Learning Needs
3:05 PM–3:45 PM, Meeting Room Q
This session will discuss the benefits, challenges, and opportunities of including children with diverse learning needs in early childhood environmental education programs and share strategies for providing individualized supports that assist young children with or at risk for disability with acquisition and generalization of critical developmental skills within the context of daily activities.
Presenter(s): Deborah Carter, Boise State University; Juli Pool, Boise State University
Strand:  

STEPing into a Green Career
3:05 PM–3:45 PM, Meeting Room OP
The Sustainable Technical Education Program, or Green STEP, is a groundbreaking program that introduces carpentry track students in technical schools to careers in the green industry. The cross curricular four-year program integrates sustainability and STEM into shops and science classrooms while providing real world connections to industry.
Presenter(s): Lisa Sarubbi, The United Illuminating Company
Strand:  

Two Examples of Student Climate and Sustainability Projects (Ocean and Desert)
3:05 PM–3:45 PM, Meeting Room MN
Learn about two Community Climate Change Fellowship projects. In one, students and communities capture carbon in the soil while growing food, conserving water, and building soil health at the Desert Oasis Teaching (DOT) Garden. In the other, MERITO Foundation empowers students to address climate change and ocean acidification.
Presenter(s): Karen Ann Temple-Beamish, Albuquerque Academy; Rocio Lozano-Knowlton, MERITO Foundation; Laura Mack, Neighborhood Council Sustainability Alliance
Strand:  

Affiliate

capacity
Bright Spots
3:05 PM–3:45 PM

Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room

1) Collaboration Around Field Trips: Planning and Implementation With Teachers
Planning for field trips are a production involving the interactions between classroom teachers and environmental educators. This case study reveals what happens when a group of teachers engages with educational staff at a botanical garden. Observations are discussed, and suggestions for future practice are offered to environmental educators and teachers.
Presenter(s): James Ammons, University of Georgia
Strand: ●

2) Utilising Teacher Stories to Inform Environmental Education
This session explores place-based environmental education provision in Australia, with particular consideration of authentic community partnerships to enhance inclusion, impact, and engagement. Teachers’ stories are utilised to gain deeper understanding of their innovative practices. Insights from these stories will be shared in order to inspire and inform authentic community partnerships within environmental education.
Presenter(s): Maia Osborn, Southern Cross University
Strand: ●

3) “WOW! This is Science?!”: Evaluating Student Impact in One-And-Done Programs
Light bulb moments are common when students participate in authentic lessons in natural environments, but capturing those transformative experiences are difficult when time is limited. This presentation proposes a system for embedding program evaluation into field based experiences through use of innovative 21st century tools that measure students’ scientific thinking and understanding.
Presenter(s): Carly Swatek, Riveredge Nature Center
Strand: ●

Friday 4:00 PM

Voyageur Canoe Race
4:00 PM–5:30 PM

Meet along the bike path at the Law Park dock (outside the Convention Center)

Whether you’re a paddler or a supportive spectator, this fun competition in voyageur canoes will have you cheering!

Before you come outside:

Purchase your $4 reusable cup at the registration desk if you’d like a beer! Place your bet on the winning team by adding your $1 ticket to the appropriate bucket at the Information Station (near registration). One lucky winner will receive free registration to the 2017 NAAEE conference.

See page 41 for more information.
Friday 5:45 PM

Meetings & Gatherings
5:45 PM–6:45 PM

Course Gathering: Climate Change Communication for Environmental Educators
5:45 PM–6:45 PM, Hall of Ideas G
EECapacity is hosting a meet and greet for students taking the online course, “Climate Change Communication for Environmental Educators.”
Coordinators: Anne Umali Ferguson, Cornell University; Anne K. Armstrong, Cornell University

Earth Partnership Gathering: Celebrating 25 Years!
5:45 PM–6:45 PM, Hall of Ideas F
Join us to share stories, network, and learn from each other. Let’s create a vision for the next twenty-five years of Earth Partnership!
Coordinator: Cheryl Bauer-Armstrong, University of Wisconsin–Madison Arboretum

Southeastern Environmental Education Alliance Meeting
5:45 PM–6:45 PM, Hall of Ideas H
Members of SEEA and other Affiliates in the southeastern United States will meet to discuss current activities.
Coordinator: Ashley Hoffman, Kentucky Association for Environmental Education

WAEE Business Meeting
5:45 PM–6:45 PM, Hall of Ideas E
All are welcome to attend WAEE’s annual Member Meeting. Find out what the organization has been up to, meet fellow members, or become a new member. There will be prizes and giveaways, along with camaraderie and a review of the annual report. A special breakout session for students will be hosted by the Wisconsin Center for EE and this year’s WAEE student members.
Coordinator: Betsy Parker

Friday 7:00 PM

Annual Gala and Auction
7:00 PM–9:30 PM

Monona Terrace Rooftop Garden
Enjoy this year’s gala reception and Stapp Scholarship Auction in the beautiful rooftop garden of the Monona Terrace Convention Center. We’ll announce the winners of the afternoon canoe race and celebrate the launch of the Global Environmental Education Partnership (GEEP)—an exciting international effort to advance environmental literacy to create a more just and sustainable future through the power of education.

Bid on your favorite items in the always-entertaining live auction, and slip in your final bid to snatch up a great variety of treasures as the silent auction concludes.

Please note:
Your conference nametag is required for admittance to meals and special events. While included with registration, you must have signed up during the online registration process in order to attend. Guest tickets and late RSVPs may be available if you wish to add the event at this time; check at the registration desk.

See page 41 for more information.
Early Morning

Community GroundWorks Garden Space on Capitol Square
7:30 AM–8:15 AM, Corner of E. Main Street and S. Pinckney Street on the Capitol Square
The Capitol grounds are famous for their beautiful gardens and plantings, so when Community GroundWorks added a vegetable garden to the mix in 2010, people took note. Visit and learn about the 10-foot circle garden that supplies food for the local food pantry, and help the Community GroundWorks’ garden curator put the garden to bed for the fall.

Saturday 8:30 AM

The following sessions all start at 8:30 AM. The end times vary with the type of session as indicated. Ninety-minute sessions are listed first, followed by 40-minute sessions.

Hands-On Presentations
8:30 AM–10:00 AM

EcoSTEM: Engaging Students in Cutting-Edge Tech and Environmental Problem-Solving
8:30 AM–10:00 AM, Hall of Ideas G
Learn how teachers are engaging students of all ages in cutting-edge technology to investigate science and solve problems in the schoolyard. Participants will see a presentation spotlighting exemplary projects; try out learning activities first-hand; discover how to jump-start STEM with their students; and find resources to make it happen.
Presenter(s): Karan Wood, Captain Planet Foundation
Strand: ●

Engaging Our Millennials: Activities and Homework That Inspire Interaction
8:30 AM–10:00 AM, Hall of Ideas F
How do you engage the Millennial? How do you create social change agents and responsible global citizens in a way that is meaningful, educational, and entertaining? Learn homework ideas and in-class activities to captivate our next generation. Also learn new activities, discuss what’s worked for you, and brainstorm together.
Presenter(s): Jill Tikkun, Camp Woodbrooke
Strand: ● ●

Nature Play and Environmental Connectivity
8:30 AM–10:00 AM, Hall of Ideas E
Unstructured play in natural settings is critical for nurturing young imaginations. Play that takes place on asphalt and plastic is denatured. This workshop introduces activities that investigate the nature of play and the design of nature play. Leaders draw from art, architecture, child development, engineering, and ecological design research.
Presenter(s): Linda Keane, The School of the Art Institute of Chicago, NEXT.cc eLearning DESIGNopedia
Strand: ●
Place Learning And Civic Engagement: Connecting Students to Their Places  
8:30 AM-10:00 AM, Hall of Ideas H  
In Place Learning and Civic Engagement (PLACE), Teton Science Schools and the University of Wyoming provided professional development for teachers from rural Wyoming on interdisciplinary place-based education, science content, and inquiry. During this session, learn more about PLACE and participate in activities to explore and deepen connection to place.  
Presenter(s): Leslie Cook, Teton Science Schools; Kate Muir Welsh, University of Wyoming  
Strand: ●

Using Local Phenology to Understand Climate Variability  
8:30 AM-10:00 AM, Hall of Ideas I  
Phenology studies the timing of seasonal biological events such as budburst, and provides the most compelling evidence that species are responding to changes in climate. Using National Penology Network’s, Natures Notebook, educators will learn citizen science protocols that can be brought back to their classrooms to document climate change locally.  
Presenter(s): Stephan P. Carlson, University of Minnesota Extension  
Strand: ●

Traditional Presentations  
8:30 AM-9:10 AM

Developing the Whole Child Through Nature: A Nature Studies Partnership  
8:30 AM-9:10 AM, Meeting Room MN  
Through collaboration with a pre-K through 6th Waldorf-inspired public charter school and University of Wisconsin-Stevens Point preservice nonformal educators, the Central Wisconsin Environmental Station implements an innovative nature studies curriculum. Come learn about how this nature studies partnership uses outdoor experiences to infuse environmental education into a public school setting.  
Presenter(s): Jordan King, University of Wisconsin-Stevens Point Central Wisconsin Environmental Center; Thomas Quinn, University of Wisconsin-Stevens Point  
Strand: ●

Ecopedagogy in Action: Introducing Youth Participatory Eco-Justice Action Research (YPEAR)  
8:30 AM-9:10 AM, Meeting Room Q  
This qualitative exploratory case study provides insight on the impact one urban high school’s three-credit YPEAR senior thesis project had on the development of urban students’ environmental literacy. Drawing from the critical pedagogical movement, it examines how the notions of ecopedagogy, empowerment, and transformation overlap to develop environmental literacy.  
Presenter(s): Joey Zocher, Escuela Verde  
Strand: ●

Fundraising for Success: Tips and Tricks for Diversifying Revenues for Your Affiliate  
8:30 AM-9:10 AM, Hall of Ideas J  
Join us for a collaborative discussion tailored to the specific needs of Affiliate leaders. Receive an introduction to fundraising and share success stories. Potential topics include donor cultivation, crowdfunding, grant writing, conferences and other special events, and exploring joint funding opportunities between Affiliates.  
Presenter(s): Ashley Hoffman, Kentucky Association for Environmental Education; Laura Downey, Kansas Association for Conservation and Environmental Education; Katie M. Navin, Colorado Alliance for Environmental Education  
Strand: ●

Green Schools: A Perspective from the Land Down Under (Mornington Australia)  
8:30 AM-9:10 AM, Ballroom D  
St. Macartan’s Primary School is an Australian school designed and built on a sustainability platform. The built and natural environments provide rich learning opportunities for students and invite inquiry, stimulate senses, engage the mind, and allow for a high level of connection and interaction. Sustainable design systems are highly visible and encourage user participation.  
Presenter(s): Carmela Theobald, St. Macartan’s Primary School; Marina Santamaria, St. Macartan’s Primary School  
Strand: ●
Long-Term Impact of a Garden-Based Learning Experience in Children’s Lives  
8:30 AM-9:10 AM, Meeting Room P
Intrigued by the learning and pedagogical possibilities that food gardens offer, I examined in this qualitative case study, student alumni and parents’ memories about participation in a one-year intergenerational garden-based learning program, to understand the impact of this garden-based learning experience in culturally diverse, urban students.
Presenter(s): Tathali Urueta-Ortiz, National Pedagogic University

Research and the Inclusion of EE in Teacher Preparation  
8:30 AM-9:10 AM, Meeting Room R
One challenge of implementing the KY Environmental Literacy Plan is the lack of preservice education focused on environmental education knowledge and skills. To address this issue, KUPEE conducted a study which recommended the reinstatement of environmental education as a requirement for all undergraduate teacher education preparation programs in the Commonwealth.
Presenter(s): Kimberly Yates, Northern Kentucky University; Billy Bennett, Eastern Kentucky University; Melinda Wilder, Eastern Kentucky University; Jennifer Lynn Hubbard-Sanchez, Kentucky State University; April Haight, Morehead State University; Terry Wilson, Western Kentucky University; David Allen, Texas A&M International University; Denice Robertson, Northern Kentucky University; Jeanine Huss, Western Kentucky University

Bright Spots  
8:30 AM-9:10 AM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room

1) Climate Change Stories: Learning From The Wisdom Of Our Elders
Climate change disproportionately impacts older adults, yet this burgeoning population is vital to community well-being. This presentation highlights pilot research that captures climate change stories among older adults (65+) engaged in community gardening. This project gives voice to their lived experiences while honoring their capacity to effect positive change.
Presenter(s): Jennifer Trapani, Antioch University New England, Community Garden Connections

2) Giving STEM a (Green) Soul: STEM Education for Earth Smarts
STEM is making inroads into environmental education, but the familiar Science, Technology, Engineering, and Mathematics acronym often seems soulless when taught with a dubious focus on jobs and lack of meaningful integration. Learn how to combine STEM with the Earth Smarts framework to give it an engaging, greener purpose.
Presenter(s): Bryan Nichols, Florida Atlantic University

3) Potato Traps and More: Students Outside Practicing Inquiry and Scientific Methods
Inexpensive and simple techniques can be used to get students practicing inquiry and real science in the area around you—these methods can be used anywhere!
Presenter(s): Kristin Corens, Wayzata Public Schools

Roundtable Discussions  
8:30 AM-9:10 AM, Ballroom C
Community-Focused, District-Wide Education for Generations of Great Lakes Youth
Table 1
Help your students discover the wonders of nature and their role in protecting them! Learn how thousands of students are participating in Great Lakes field trips and classroom learning in Cleveland, Evanston, Racine, and more. We’ll share our model, successes, and struggles and discuss how communities can support our students.
Presenter(s): Katharine Larson, Alliance for the Great Lakes; Clare Tallon Ruen, LakeDance

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Enabling High-Impact Climate Change Education Through Regional Collaboration

**Table 2**
Climate change is the defining issue of our time and environmental educators are uniquely positioned to change hearts and minds, yet many struggle to provide high quality climate programming. This session is for anyone interested in best practices from a Bay Area collaborative pushing the boundaries on climate education and action.
**Presenter(s):** Oksana Shcherba, Golden Gate National Parks Conservancy
**Strand:**

Latino Earth Partnership: Community Action Through Restoration Education

**Table 3**
Latino Earth Partnership (LEP) builds a collaboration among schools, organizations, and communities to generate enthusiasm among Latino youth to become environmental stewards. In this session we will discuss how LEP weaves together Latino cultural perspectives with ecological restoration education to create new learning experiences reflecting Latino history, language, and environmental justice.
**Presenter(s):** Cheryl Bauer-Armstrong, University of Wisconsin-Madison Arboretum; Maria Moreno, University of Wisconsin-Madison Arboretum, Earth Partnership; Stephen Laubach, University of Wisconsin-Madison Arboretum
**Strand:**

Outdoor Connections: Lessons From the Field…and the Lagoon

**Table 4**
We’ve significantly grown and improved our education and outreach programs. You can, too! We want to share what we’ve learned. Come talk to us about building a standards-based curriculum for your nature center, creating hands-on activities, the challenges of getting kids outside, the allure of animal ambassadors, funding, partnerships, and more!
**Presenter(s):** Tim Decker, Agua Hedionda Lagoon Foundation; Robyn Hill, National University
**Strand:**

Revealing the Mysteries of Conservation Leadership Development

**Table 5**
As our natural environment faces increasing pressures, creating experiences that ignite conservation leadership in young people is more critical than ever. Join Student Conservation Association (SCA) to discuss what new research reveals about how conservation leadership develops in adolescents and discuss the implications of this research for environmental education programs.
**Presenter(s):** Josiah Downey, Student Conservation Association (SCA)
**Strand:**

Using Community Partnerships to Put EE into STEM

**Table 6**
Environmental education is a powerful platform for engaging students in STEM. We will describe an ongoing partnership between nonformal and formal educators that has overcome obstacles to create award-winning results. See how the challenges of limited instructional time, funding, and institutional buy-in can be addressed through community partnerships.
**Presenter(s):** Beverly Bryant, Wehr Nature Center; Sharon Hushek, Franklin Public Schools
**Strand:**

Where to Begin? Solutions-Based Groupthink on Inclusionary Environmental Education

**Table 7**
How are educators to provide inclusionary nature-based educational experiences as class sizes swell and special education programs shrink? In this joint presentation attendees will participate in a groupthink process based on salient research and personal stories of trial and error.
**Presenter(s):** Rebecca Ammann, Chicago Botanic Garden; Katherine Knight, Chicago Botanic Garden
**Strand:**

**Saturday 9:20 AM**
The following sessions are all 40-minute sessions that start at 9:20 AM and end at 10:00 AM.

**Meetings**
9:20 AM-10:00 AM

**NAAEE Business Meeting**
9:20 AM-10:00 AM, Meeting Room KL
Join NAAEE’s board chair, executive director, board, and staff for a discussion on the current state of the organization and future directions for NAAEE. Topics will include strategic planning, a financial report, and your questions. We welcome your input!
**Presenter(s):** Pepe Marcos-Iga, Western National Parks Association; Judy A. Braus, NAAEE
Traditional Presentations
9:20 AM-10:00 AM

Beyond the Green Ribbon: Translating Environmental Best Practices into Innovative Educational Programs
9:20 AM-10:00 AM, Hall of Fame Room
You’ve installed green upgrades, built your garden, and adopted sustainable policies. Now it’s time to turn those actions into a green learning culture. Hear how a National Green Ribbon School District is ensuring their green efforts touch every student with science programs that create awareness and empower students to take action.
Presenter(s): Timothy Baird, Encinitas Union School District; Jodi Greenberger, Encinitas Union School District; Mim Michelove, Encinitas Union School District
Strand:

Climate Change Past, Present, Future: HHMI Helps Clear the Air
9:20 AM-10:00 AM, Ballroom D
HHMI provides free online resources to teachers who are dedicated to clarifying climate issues. Delve into the past with the Earthviewer App, hear about current science from the world’s leading climate scientist via streaming videos, and help students plan the future by studying models based on authentic science.
Presenter(s): Laura Dinerman, Sherwood High School, Montgomery County Maryland
Strand:

Engagement With Nature as Mediated Through Outdoor-Based Mobile Programs
9:20 AM-10:00 AM, Meeting Room MN
What does it mean to be “engaged” and what does engagement with nature look like when mobile devices are used in outdoor spaces? This session will explore this topic and how engagement with nature can be mediated through the use of empirically derived design recommendations for outdoor-based mobile device programs.
Presenter(s): Lucy Richardson McClain, Shaver’s Creek Environmental Center–Penn State University
Strand:

EPA Environmental Education Grants Program
9:20 AM-10:00 AM, Hall of Ideas J
Under the Environmental Education Grants Program, EPA seeks grant proposals from eligible applicants to support EE projects that promote environmental awareness and stewardship and help provide people with the skills to take responsible actions to protect the environment. In this session, EPA will offer an overview of the program and information on applying for grants.
Presenter(s): Karen Scott, U.S. Environmental Protection Agency; Megan Gavin, U.S. Environmental Protection Agency Chicago
Strand:

Increasing Our Collective Impact: Large-Scale Status & Needs Surveys Results
9:20 AM-10:00 AM, Meeting Room P
Results from two surveys of EE-related organizations in Wisconsin inform the EE field about the status and needs of organizations to increase our collective impact. Results and recommendations are included for participation trends, economic impact, program evaluations, inclusion & accessibility, use of technology, land management, and professional development needs.
Presenter(s): Steve C. Kerlin, Stroud Water Research Center; Robert Justin Hougham, University of Wisconsin Cooperative Extension; Kendra Liddicoat, University of Wisconsin–Stevens Point
Strand:

Purposeful Play: Design Spaces and Practices in Early Environmental Education
9:20 AM-10:00 AM, Meeting Room O
With academia trickling down into early education, students need authentic experiences and play. Designed play landscapes, or Playscapes, may be the new paradigm for supporting these experiences. Through personal applications of research-based practices, attendees will leave with straightforward and successful methods of integrating outdoor experiences to support today’s classroom.
Presenter(s): Victoria Carr, University of Cincinnati; Peter Dargatz, Hamilton School District
Strand:
The Future of STEAM Education: Engineered Hydroponics
9:20 AM-10:00 AM, Meeting Room R
Rubicon’s innovative application of controls engineering technology to the hydroponic growing process allows for an immersive STEAM education curriculum encompassing disciplines from biology to logic board programming. By giving students the ability to study the growing process through an advanced data-driven method, Rubicon will energize and educate the non-traditional farmers of tomorrow.
Presenter(s): Chris Moorman, Rubicon Agriculture

The OAK Learning Center: A Nature-Based Early Childhood Experience
9:20 AM-10:00 AM, Meeting Room Q
A nature-based four-year-old kindergarten program at a wildlife sanctuary in Green Bay, Wisconsin opened in 2013 and is the first in this state connected with a public school district. We will provide a brief overview of how it developed and share updates on curriculum, teacher education, and student achievement goals.
Presenter(s): Scott Ashmann, University of Wisconsin-Green Bay; Michael L. Reed, Bay Beach Wildlife Sanctuary

Roundtable Discussions
9:20 AM-10:00 AM, Ballroom C
Bringing Engineering to Gardening Using Hydroponics and Aquaponics
Table 1
Come to this session to learn how to incorporate engineering into life science through gardening indoors with hydroponics and aquaponics! Students love it and you can provide service to your school or community with your produce! We will describe funding and partnerships as well as share materials and lessons.
Presenter(s): Prisca Moore, Carthage College

Exploring South African Primary School Learners’ Knowledge of Global Warming and Climate Change
Table 2
Global warming and climate change constitute the greatest threat to human health in the 21st Century. Despite this fact, the knowledge of the general public about these two concepts is quite deficient. This study aims to examine the knowledge of primary school learners about global warming and climate change.
Presenter(s): Adejoke Christianah Olufemi, Tshwane University of Technology, Pretoria, South Africa; Andile Mji, Tshwane University of Technology, Pretoria, South Africa; Murembiwa Stanley Mukhola, Tshwane University of Technology, Pretoria, South Africa

Foster Family Eco Fun Day
Table 3
Students organized three different eco-family fun days for foster families and their children as part of their civic engagement projects over three semesters. Come learn about this environmental education event and consider different ways to reach out to similar communities in your area to help strengthen connections to nature.
Presenter(s): Sarah West Davis, Florida Gulf Coast University

Hashtag the Engagement Panda: Does Social Media Yield Conservation Action?
Table 4
Twitter. Facebook. Email. Internally built forums. Externally built forums. The opportunities to connect across social platforms is almost limitless. How do you justify and balance your time on social engagement vs. time on actual real world projects? With limited time, how do we divide time and also measure success?
Presenter(s): Jennifer Kobylecky, Aldo Leopold Foundation; Anna Hawley, Aldo Leopold Foundation

Bee a friend—like us on Facebook!
How to Run a Great(er) State or Regional EE Conference

Table 5
Most Affiliate organizations offer an annual conference. Come share and learn about successful and engaging conference practices, formats, and activities. Why is it that some conferences are quickly forgotten while others have lasting impact? Why do some conferences struggle to squeak by while others bring in impressive revenues?
Presenter(s): Adrian Ayson, New England Environmental Education Alliance; Katie M. Navin, Colorado Alliance for Environmental Education; Laura Collard, Maryland Association for Environmental and Outdoor Education; Ashley Hoffman, Kentucky Association for Environmental Education

Strand: ● naaee Affiliate

Project Learning Tree and Your NGSS Classroom

Table 6
This Roundtable Discussion introduces an NGSS mapping tool by engaging participants with Project Learning Tree lessons as examples of how preservice teachers plan for a NGSS and Common Core classroom experience. Participants will walk away with examples of how our research supports NGSS planning via EE curricula.
Presenter(s): Michele Korb, California State University, East Bay
Strand: ●

Successes and Struggles in Shifting Predominantly White EE Institutions

Table 7
At this discussion we will share successes, challenges, questions, and resources around efforts to develop more inclusive, equitable, and diverse EE organizations. Participants should bring their anecdotes and questions to this round table discussion, and will leave with ideas, resources, and connections for moving forward.
Presenter(s): Melissa Kline, Education Outside; C. Parker McMullen Bushman, Chincoteague Bay Field Station; Amesha Morris, EarthMeetsMan
Strand: ● ●

Transdisciplinary Environmental Education and Inclusion Across Stakeholders—A Holistic Approach

Table 8
A holistic approach to diversity and inclusion calls for environmental education across disciplines, includes those without education titles, and engages various stakeholders (i.e., youth, self, peers, employers, funders etc.). Thought-provoking discussions will take an inquiry format; questions will build on questions to get at root causes to find solutions.
Presenter(s): Amaris Alanis Ribeiro, Chicago Botanic Garden; Credell Walls, Forest Preserves of Cook County; Anthena Gore, Environmentalists of Color; Mary Khoury, The Nature Conservancy; Bryant Williams, ReBuilding Exchange

Strand: ● ●

Saturday 10:00 AM

Coffee Break
10:00 AM-10:30 AM, Grand Terrace

Saturday 10:30 AM

The following sessions all start at 10:30 AM. The end times vary with the type of session as indicated.

Meetings
10:30 AM-11:10 AM

NAAEE 2017: Share Your Ideas!
10:30 AM-11:10 AM, Dane Room
How can we improve on this year? We’d love to hear your thoughts. Come share your ideas and suggestions for our 46th annual conference, scheduled for October 17-21, 2017 in San Juan, Puerto Rico.
Presenter(s): Lori Mann, NAAEE
Hands-On Presentations
10:30 AM–12:00 PM
Compost Cookies! Bee Puppets! Recycled Turtles!
Art + Environment = Learning + Fun
10:30 AM–12:00 PM, Hall of Ideas F
This exciting, innovative program uses art to teach about environmental concepts. With hands-on art activities developed by preservice teachers, elementary students learn about clean water, pollinators, and reducing toxins. Want to make some cool environmental art and receive the teacher guides for your classroom? Come play with us!
Presenter(s): Shari L. Wilson, Project Central; Heather Nisbett-Loewenstein, StoneLion Puppet Theatre
Strand:  ●

Engaging Youths to Measure Air Quality (PM2.5) With an AirBeam
10:30 AM–12:00 PM, Hall of Ideas G
Learn about air quality, develop monitoring plans utilizing the AirCasting platform to record, map, interpret, and share data. Use air quality sensors to measure PM2.5; use AirCasting platform and observations to identify sources of particle pollution; and collect air quality measurements and make sense of the data.
Presenter(s): Rebecca N. Davis, DC Environmental Education Consortium
Strand:  ●

Innovation and Inclusion in Food Sovereignty Education
10:30 AM–12:00 PM, Hall of Ideas H
Learn how to breed, cook, and eat insects (entomophagy) as an alternative food system for the future. We will cook insects and explore the positive environmental impacts of growing insects for food. A diverse group of students from Madison Public Schools will share their experiences recently learning about entomophagy.
Presenter(s): Julie Butler, Madison Children’s Museum
Strand:  ●

Surfacing Unheard Voices: Catalyzing Collaborative Writing for Climate Change Education
10:30 AM–12:00 PM, Hall of Ideas E
In this immersive, hands-on experience, we will share methods for surfacing unheard voices. Practice opening up creative, “brave” spaces, unleashing creativity by writing from visual and poetic prompts, and facilitating collaborative writing. We will highlight the use of multimedia and social media for sharing what is generated.
Presenter(s): Marna Hauk, Institute for Earth Regenerative Studies & Prescott College; Elizabeth A. Pickett, Hawaii Wildfire Management Organization; Malama Kai Foundation
Strand:  ●

The Good, the Bad, and the Ugly: Aquatic Invasive Species of the Mid-Atlantic
10:30 AM–12:00 PM, Hall of Ideas I
Rock Snot? West Nile? Snakeheads? This hands-on session will introduce you to the environmentally, economically, and human health costly world of invasive species. Students of all ages can learn first hand how they can play an important role in protecting our biodiversity through engaging in the study of invasive species.
Presenter(s): Sarah Haines, Towson University; Cindy P. Etgen, Maryland Department of Natural Resources
Strand:  ●

Traditional Presentations
10:30 AM–11:10 AM
“Managing Elsewhere:” Environmental Education and Waste
10:30 AM–11:10 AM, Meeting Room P
Got trash? Of course you do! “So throw it away!” There is no away; there is only someplace else. “Managing Elsewhere” demonstrates how innovative waste diversion practices provide new insight for educators teaching STEM standards and how simple behavior change can improve our environment, climate, our culture, and everyday lives.
Presenter(s): Jack Johnson, Pitkin County Landfill
Strand:  ●

Applying Research to Increase Our Impact  ●  Conservation and Environmental Education  ●  Educating for Sustainable Communities  ●  Green Schools  ●  Inspiring Connections to the Outdoors  ●  Leadership and Capacity Building  ●  Diversity, Equity, and Inclusion
Dimensions of Communities of Practice Within the EECapacity Project
10:30 AM–11:10 AM, Meeting Room MN
Learn how the three dimensions defining Communities of Practice (mutual engagement, shared repertoire, joint enterprise) contributed to the success of three EE Capacity initiatives: State Consortia, Climate Change Fellows, and the 2014 Urban EE Course. These communities reflect the emerging teams of culturally diverse EE professionals working together today.
Presenter(s): Marianne Krasny, Cornell University; Anne Umali Ferguson, Cornell University

Exploring Elementary Students’ Environmental Attitudes and Commitment Towards the Environment
10:30 AM–11:10 AM, Ballroom D
“Grandpa, don’t put that down the storm drain!” We will share how a project-based STEM curriculum, in which children monitored storm drains, researched the impact of trash and pollution on marine ecology, and took a boat ride to witness the impact, affected their attitudes and commitment towards the environment.
Presenter(s): Mary Jean McCarthy, Adelphi University; Emily Kang, Adelphi University

How Much is Enough? Preservice Teacher Preparation for EE
10:30 AM–11:10 AM, Meeting Room Q
There are various approaches to preparing future classroom teachers in EE. This session will compare two separate research studies about two different approaches to preservice teacher preparation. Using these research findings, implications for the design of preservice teacher preparation for EE will be discussed.
Presenter(s): Kevin Zak, Northland College; Mary Beth Factor, Trees For Tomorrow

Lessons in Designing Public School Curriculum That Promotes Stewardship Across Demographics
10:30 AM–11:10 AM, Meeting Room R
How can we take advantage of standards reform to expand learning opportunities that promote environmental and community stewardship for a diverse range of students in public schools? We explore answers to this question from research with over 70 curriculum developers and teachers, and through facilitated dialogue with session participants.
Presenter(s): Brenda Gail Bergman, Michigan Tech University

Neighborhood Environmental Education Project: A Partnership With Urban Schools
10:30 AM–11:10 AM, Meeting Room KL
Imagine a world where every urban child can explore the natural world every day of every season of the year. In Milwaukee, WI, the Urban Ecology Center serves over 27,000 urban youth annually through a rich partnership with neighborhood schools across the city.
Presenter(s): Kirstin Anglea, Urban Ecology Center

Our Journey, Our Destination: Arizona’s Online Environmental Education Certification Course
10:30 AM–11:10 AM, Meeting Room O
Arizona's journey in developing an online environmental education certification course is explored in this interactive session. We will share lessons learned, the planning and piloting process, and how the course can be integrated and connected to ongoing capacity-building and engagement in environmental education. Start your certification journey with us!
Presenter(s): LoriAnne Barnett, USA National Phenology Network

Recognizing Excellence in EE and Green Schools: Wisconsin U.S. Department of Education Green Ribbon Schools Panel
10:30 AM–11:10 AM, Hall of Ideas J
“Green Schools” are not defined by facilities. Comprehensive green schools reduce environmental impact, improve health, and increase environmental and sustainability literacy. The movement has proven effective to increase EE in PreK-12. Join Wisconsin U.S. Department of Education Green Ribbon School honorees to learn how green and healthy initiatives inspire environmental education.
Presenter(s): Victoria Rydberg, Wisconsin Department of Public Instruction; Stefan Anderson, Conserve School; Debra Weitzel, MCPASD; Joann Kasper, Fox Eiver Academy; Amy Callies, Middleton Cross Plains Area School District

Strand:
Bright Spots
10:30 AM-11:10 AM

Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room

1) Enabling Authentic Student Narrative Development Through Digital Field Tools
National literature points to the need for incorporating mobile technology in experiential education. Through hands on activities in this workshop, facilitators will illustrate how to satisfy demand in this arena through the Digital Observation Technology Skills (DOTS) Kit. Attendees will receive digital copies of the resources and curriculum.

Presenter(s): Robert Justin Hougham, University of Wisconsin Cooperative Extension; Max Myers, Upham Woods Outdoor Learning Center; Marc Nutter, University of Wisconsin Cooperative Extension; Sarah Burgess, University of Wisconsin Cooperative Extension; Ken Keffer, Wehr Nature Center, UW Extension; Joey Zocher, Escuela Verde

2) Using ArcGIS Online to Enhance Middle School Ecosystem Field Trips
Students love devices and technology, right?! Why fight it at your nature center? We will discuss how we utilized a grant to incorporate using tablets with the ArcGIS Online mapping software, available to all public schools for free, into our aquatic/riparian ecosystem field trip for middle schools.

Presenter(s): Chris Pistole, Wildcat Glades Conservation & Audubon Center; Doreen Whitley Rogers, National Audubon Society

Strand:

Roundtable Discussions
10:30 AM-11:10 AM, Ballroom C

Civic Versus Citizen Science: A Practical Framework for Clarification

Table 1
This session will provide educators with a framework to help compare and contrast citizen science, civic science, and related concepts. Communications and sensor technologies are making public science more powerful, and a better understanding of the relationship between scientists, policy-makers, and the public can contribute to environmental justice and wellbeing.

Presenter(s): Bryan Nichols, Florida Atlantic University

International Perspectives on Arts Pedagogies and Experiential Nature Education

Table 2
Research shows there are significant barriers to education for sustainability and environment in early childhood education. This presentation reports on the effectiveness of a new, international set of recommendations for curriculum integration between the arts and experiential nature education for integrating sustainability education and promoting post-humanist interaction with our planet.

Presenter(s): Kumara Ward, Western Sydney University; Christine Kiewra, Dimensions Educational Research Foundation/Nature Explore

Mainstream Teacher Preparation Rooted in Place: Options and Opportunities

Table 3
How can place be integrated in traditional teacher preparation programs? What activities can new teachers engage in that will connect them with the outdoors and local communities, and offer practical ways to teach through local places? Join a conversation on integrating place-based teaching into the preparation of all new teachers.

Presenter(s): Amy Vinlove, University of Alaska Fairbanks

Promoting the CCSS and NGSS Through Global Environmental Education

Table 4
Rainforest Alliance’s hands-on lessons to help students think critically about global ecosystems and sustainability while addressing the CCSS (ELA and math) and NGSS.

Presenter(s): Maria Ghiso, Rainforest Alliance

Strand:
Strategies to Connect to All Students

Table 5
Join the Friends of Tryon Creek for a discussion on how we, as either formal or nonformal environmental educators, can use intentional engagement strategies, quality educator trainings, and inclusive language to connect to students regardless of developmental stage, cultural/socio-economic background, comfort and experience in natural spaces, or perceived academic ability.
Presenter(s): Erin Cathcart, Friends of Tryon Creek State Park
Strand: ●

Students as Change-Makers—Leading Community Engagement for Water Quality Protection

Table 6
Engaging students through community-based projects is key for cleaning up our lakes and rivers. Current water quality threats go beyond the capabilities of traditional, infrastructure-based approaches. This presentation will provide examples of students successfully educating their communities about water quality issues and what individuals can do to help.
Presenter(s): Joanna Allerhand, Grand Valley State University College of Education; Clayton Pelon, Grand Valley State University
Strand: ●

The Social, Cultural, and Ecological Value of Important Natural Places

Table 7
Few doubt the survival of threatened species and ecosystems depends on community decisions made around local resource use and a shared commitment among local people to conserve. This research investigates how different local people connect with natural places analyzing which factors are associated with authentic conservation action.
Presenter(s): Jill Korach, Miami University
Strand: ●

Using Phenology to Educate Youth and Build Local EE Partnerships

Table 8
Save the Redwoods League (a San Francisco nonprofit) and the East Bay Regional Park District partner to bring citizen science redwood education to urban, under-served schools. Students participate in an all-day field trip to a local redwood park where they collect scientific data as part of the Redwood Phenology Citizen Science Project.
Presenter(s): Deborah Zierten, Save the Redwoods League; Morgan Dill, East Bay Regional Park District
Strand: ●

Saturday 11:20 AM

The following sessions are all 40-minute sessions that start at 11:20 AM and end at 12:00 PM.

Traditional Presentations
11:20 AM-12:00 PM

Eliminating Silos and Strengthening Environmental Education Through Regional Collaborations
11:20 AM-12:00 PM, Meeting Room KL
Learn about the value of regional collaborations and how several Affiliates from different states have used this model to build capacity for their organizations and eliminate silos. Participants will hear success stories and key takeaways from these partnerships and have the opportunity to brainstorm and plan for initiating similar opportunities in their region.
Presenter(s): Ashley Hoffman, Kentucky Association for Environmental Education; Sarah West Davis, Florida Gulf Coast University; Tracey Ann Ritchie, University of Florida; Anita Salinas, Environmental Education Association of Alabama; Jennifer McCoy, Cobb County Water System; Sarah Bodor, NAAEE; Adrian Ayson, New England Environmental Education Alliance
Strand: ● naaee

Group Feedback in the Classroom Promotes Home Energy Conservation
11:20 AM-12:00 PM, Meeting Room R
Learn how providing group feedback to middle school students about their peers’ household energy habits influenced engagement in their home energy-related behavior.
Presenter(s): Jenny Christopher, Wisconsin Center for Environmental Education
Strand: ●

How Aristotle Can Help Us Improve EE
11:20 AM-12:00 PM, Meeting Room Q
What makes an experience truly “life-changing” for a participant? This session will explore the intersection between experiential learning literature and Aristotle’s ideas about practical wisdom to make sense of how outdoor programs impact participants, and what participants remember as significant up to 27 years later.
Presenter(s): Aaron Marshall, Santa Barbara Zoo
Strand: ●

115
Out of the Classroom and into the Outdoors 11:20 AM–12:00 PM, Meeting Room MN
For 35 years, North Lakeland School has delivered three two-day outdoor education experiences for its K–8 students. We’ll focus on the history of this successful program, how it includes state standards in the curriculum, the partnership with a local nature center, and discuss how to start up a similar program. 
Presenter(s): Brent Jelinski, North Lakeland School District; Licia Kuckkahn Johnson, North Lakeland Discovery Center
Strand: ● ● ●

ResourceSmart Schools—Embedding Sustainability into Everything Victorian Schools Do 11:20 AM–12:00 PM, Hall of Ideas J
Every day thousands of students and teachers in Victoria, Australia, are building a more sustainable future through ResourceSmart Schools. This presentation will introduce you to ResourceSmart Schools: the framework, delivery model, and achievements. The presentation will highlight the ingredients of the program’s success as well as lessons learnt from our research and evaluation approach.
Presenter(s): Alan Reid, Monash University
Strand: ●

The Effects of Using an Environmental Issues Forum in Higher Education Settings 11:20 AM–12:00 PM, Meeting Room O
Students enrolled in an environmental issues course at the University of Wisconsin–Stevens Point and Eastern Kentucky University participated in and then led the Environmental Issues Forum, Climate Choices. Students took a pre- and post-survey that included questions related to climate change, environmental attitudes and behaviors, and reactions to the forums.
Presenter(s): Rebecca Lee Franzen, University of Wisconsin–Stevens Point Central Wisconsin Environmental Center; Billy Bennett, Eastern Kentucky University; Melinda Wilder, Eastern Kentucky University
Strand: ●

Working Together is Better: 10,000 Students and Counting... 11:20 AM–12:00 PM, Ballroom D
Imagine a program that gets over 10,000 elementary students outside multiple times each year. Imagine a program that gets over 20 partners to work together. The Mighty Acorns Program does just that. Join us as we reveal lessons learned for coordinating environmental education partnerships and region-wide student conservation action efforts.
Presenter(s): Meghan Forseth, The Field Museum
Strand: ●

Educators’ Web Portal: An Innovative and Comprehensive EE Curricular Resource 11:20 AM–12:00 PM, Meeting Room P
The Aldo Leopold Nature Center, in conjunction with local school districts, teachers, and education experts, has developed a new online Educators’ Portal, featuring fieldtrip information, EE resources, and curricular connections. Learn about this innovative digital teacher resource, which provides K–12 classroom lessons, fieldtrip assistance and justification, and linkages to educational standards including Common Core and NGSS.
Presenter(s): Brenna Holzhauer, Aldo Leopold Nature Center/Nature Net; Virginia Wiggen, Aldo Leopold Nature Center
Strand: ●

Bright Spots 11:20 AM–12:00 PM
Learn about two or three successful and loosely related programs in each 40-minute Bright Spots session. Sessions are presented in the order listed.

Hall of Fame Room

1) Schoolyard Pedagogy: Building Successful School/Community/University Partnerships
How often do Community Service-Learning (CSL) partnerships between a university and community organization end up being a one-off initiative? This “Bright Spot” will introduce a reciprocal CSL partnership that began as a small scale schoolyard greening project that has taken root regionally. This Greening Niagara’s Schoolgrounds initiative is noteworthy for the variety of stakeholder involvement.
Presenter(s): Mary Breunig, Brock University
Strand: ●

2) Successful Secondary Programs at the Boston School Forest
The Stevens Point Area Public School District’s Boston School Forest has expanded its programming to include all secondary students in the District in grades 7–10. This program involves students in citizen science projects, utilizes technology, and gives the older students an opportunity to teach our youngest learners.
Presenter(s): Karla Lockman, Stevens Point Area Public School District
Strand: ●
3) The Green Schools Consortium of Milwaukee
The Green Schools Consortium of Milwaukee is the first-of-its-kind regional network of Wisconsin Green and Healthy Schools. Since late 2014 the consortium has brought together funders, agencies, and practitioners from around the Milwaukee area to fund, design, build, and maintain meaningful green infrastructure projects at Milwaukee-area schools.

Presenter(s): Justin Hegarty, Reflo–Sustainable Water Solutions
Strand: 

**Roundtable Discussions**
11:20 AM–12:00 PM, Ballroom C

**Building Cross-Sector Partnerships to Fund Green Student Innovation**
**Table 1**
Re-imagine the school building as a laboratory for applied STEM education! Learn how green school programs and cross-sector partnerships can promote environmental stewardship, authentic projects, investment, and community collaboration. Through eco-audits and projects, participants will explore how to use the school building as a learning tool, developing students as leaders.

Presenter(s): Jonathan Stott, EcoRise Youth Innovations; Mary K. Priddy, City of Austin Office of Sustainability
Strand: 

**Chesapeake Exploration—An Online Learning Model for Environmental Education**
**Table 2**
Students, teachers and adult learners are increasingly taking advantage of the multitude of online learning opportunities and so can environmental educators. Join us to learn about NOAA Chesapeake Bay Office’s online learning platform Chesapeake Exploration and how it supports environmental science education in the classroom and the field.

Presenter(s): Bart Merrick, NOAA
Strand: 

**Connecting Local Students with Conservancy Lands While Building Scientific Literacy**
**Table 3**
The Catalina Island Conservancy is building science knowledge and personal connections with nature in our local youth through a continuum of curriculum from pre-K to 12th grade. Through in-class presentations, field trips, the school garden, and summer internships, NatureWorks is building science literacy and student connections with the natural world.

Presenter(s): Willie Adam Richerson, Catalina Island Conservancy
Strand: 

**Let’s Hack the Curriculum to Transform the Environment & Transform Communities!**
**Table 4**
Nonprofits want to work with schools; teachers need community partners and opportunities to develop content knowledge. Students demand relevant, engaging curriculum with connections to great jobs. Come “hack” the curriculum to build collective impact on real environmental issues and see firsthand how you can collaborate with schools in your community.

Presenter(s): Sammy Lyon, Environmental Charter Schools
Strand: 

**Place-Based Curriculum Research Processes: Flathead Watershed Educators’ Guide**
**Table 5**
The presenters will describe the development of place-based curriculum materials and how a continuous critical analysis of those materials can lead to effective environmental education. The presenters will describe their work in the Flathead Watershed, Montana, and encourage participants to share their curriculum research related to place-based curricula.

Presenter(s): Kimberly Yates, Northern Kentucky University
Strand: 

**Reward Schools for Delivering Energy Efficiency Together**
**Table 6**
Learn how over 15 schools in Wisconsin are greening their buildings and being rewarded for energy efficient behavior changes through the Delivering Energy Efficiency Together initiative. Synchronizing faculty, staff, student, and community efforts is key to implementing a successful behavior change program with real energy savings.

Presenter(s): Melissa Rickert, Focus on Energy
Strand: 

**SATURDAY**
The Power of Blended Environmental Education to Increase Impact

**Table 7**

Explore the potential of increasing your educational impact by pairing place-based programming with online learning. Join the Cornell Lab of Ornithology’s eLearning Specialist to discuss ways to successfully implement blended learning in environmental education and consider ways this approach can expand and enhance your local programming and increase its accessibility.

Presenter(s): Mya Thompson, Cornell Lab of Ornithology

Strand:

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**Saturday 12:00 PM**

**NAAEE Awards Luncheon and Closing Panel**

12:00 PM–2:30 PM, Ballroom AB

30 Under 30: Young Leaders Making a Difference

Garrett Blad, CJ Goulding, Kelsey Leonard, Madison Vorva

Moderated by Danni Washington

See pages 32 and 42 for more information.

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**Past Conference Venues**

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Steve Weir, weiresign.com
The Affiliate Network
From Alberta, Canada to Coyoacán, Mexico

- Environmental Education Association of Alabama
- Alberta Council for Environmental Education
- Alaska Natural Resources and Outdoor Education Association
- Arizona Association for Environmental Education
- Arkansas Environmental Education Association
- California Association for Environmental and Outdoor Education
- Canadian Network for Environmental Education and Communication (EECOM) /Le réseau canadien pour d’éducation et de communication relatives à l’environnement
- Colorado Alliance for Environmental Education
- Connecticut Outdoor and Environmental Education Association
- Delaware Association for Environmental Education
- District of Columbia Environmental Education Consortium
- Distrito Federal
- League of Environmental Educators in Florida
- Environmental Education Alliance of Georgia
- Hawaii Environmental Education Alliance
- Idaho Environmental Education Association
- Environmental Education Association of Illinois
- Environmental Education Association of Indiana
- Iowa Conservation Education Coalition
- Kansas Association for Conservation and Environmental Education
- Kentucky Association for Environmental Education
- Louisiana Environmental Education Association
- Maine Environmental Education Association
- Maryland Association for Environmental & Outdoor Education
- Massachusetts Environmental Education Society
- Mexico Centro de Información y Communicación Ambiental de Norte América
- Michigan Alliance for Environmental and Outdoor Education
- Minnesota Association for Environmental Education
- Mississippi Environmental Education Alliance
- Missouri Environmental Education Association
- Montana Environmental Education Association
- Nebraska Alliance for Conservation and Environmental Education
- New England Environmental Education Alliance
- New Hampshire Environmental Educators
- Alliance for New Jersey Environmental Education
- Environmental Education Association of North Carolina
- North Dakota Coalition for Conservation and Environmental Education
- Environmental Education Council of Ohio
- Oklahoma Association for Environmental Education
- Environmental Education Association of Oregon
- Pennsylvania Association of Environmental Educators
- Rhode Island Environmental Education Association
- Saskatchewan Outdoor and Environmental Education Association
- Environmental Education Association of South Carolina
- Environment Education Connections of South Dakota
- Southeastern Environmental Education Alliance
- Tennessee Environmental Education Association
- Texas Association for Environmental Education
- Utah Society for Environmental Education
- Vermont Statewide Environmental Education Programs
- Virginia Association for Environmental Education
- E3 Washington
- West Virginia Environmental Education Association
- Wisconsin Association for Environmental Education
- Wyoming Association for Environmental Education
Getting Around Town

Places to Visit

Aldo Leopold Foundation—Leopold Center and Leopold Shack
Explore interpretive exhibits to learn about Leopold’s story, find how the essays in A Sand County Almanac connect to this place, understand the Leopold family legacy, and be inspired by the green building features of the center. The Shack, a re-built chicken coop along the Wisconsin River where the Leopold family stayed during weekend retreats, continues to serve as the heart of the Foundation’s programs.
E13701 Levee Road, Baraboo
608-355-0279
aldoleopold.org/Programs/shack

Aldo Leopold Nature Center
The Aldo Leopold Nature Center provides hands-on programs and interactive exhibits to connect visitors of all ages to the natural world in the spirit of famed conservationist Aldo Leopold. The Climate Science Education Center features high-tech, interactive features found nowhere else in the region. The surrounding oak savanna, wetlands, prairies, and woodlands provide a quiet respite from the nearby city life.
330 Femrite Drive, Monona
608-221-0404
aldoleopoldnaturecenter.org

Dane County Farmers’ Market
The original Madison Farmers’ Market on the Square is located on the tree-lined grounds surrounding the State Capitol building—otherwise known as “the Square.”
2 E. Main Street, Madison
608-455-1999
dcfm.org

Devil’s Lake State Park
Devil’s Lake State Park is the largest state park in Wisconsin and is known for its 500-foot-high quartzite bluffs along the 360-acre Devil’s Lake, which were created by glacier deposits during the last ice age approximately 12,000 years ago. The park has trails ranging from handicapped accessible paved trails to difficult hiking or bouldering trails. There are also designated rock climbing areas for all levels of experienced climbers and bike trails available. Both the north and south shores have food courts and modern restroom facilities.
S 5975 Park Road, Baraboo
608-356-8301
devilslakewisconsin.com

Henry Vilas Zoo
The Henry Vilas Zoo is one of only a handful of admission-free, community-supported zoos in the country. Fully accredited by the Association of Zoos and Aquariums, the beautiful zoo features exhibits and attractions for the whole family.
702 S. Randall Avenue, Madison
608-258-9490
vilaszoo.org

House on the Rock
The House on the Rock is a tourist attraction located between the cities of Dodgeville and Spring Green. Opened in 1959, it is a complex of architecturally unique rooms, streets, gardens, and shops designed by Alex Jordan, Jr.
5754 State Road 23, Spring Green
608-935-3639
thehouseontherock.com
International Crane Foundation
The ICF works worldwide to conserve cranes and the ecosystems, watersheds, and flyways on which they depend. Visitors to the ICF headquarters can enjoy a guided tour of the world’s cranes, take a hike on nature trails, and browse nature themed items from around the world in the gift shop.
E-11376 Shady Land Road, Baraboo
608-356-9462
savingcranes.org

Madison Children’s Museum
Madison Children’s Museum connects children with their families, their communities, and the world beyond through discovery, learning, and creative play. The museum contains exhibits on the arts, sciences, history, culture, health, and civic engagement. **Show your conference name badge for free admission this week!**
100 N. Hamilton Street, Madison
608-256-6445
madisonchildrensmuseum.org

Memorial Union Terrace
Grab a chair and soak up the sun on the historic Memorial Union Terrace. Opened on October 5, 1928, the Memorial Union sits on the shores of Lake Mendota between Helen C. White Library and the Armory (Red Gym). This building is most recognized for its classic architecture and bright green, orange, and yellow sunburst Terrace chairs.
800 Langdon Street, Madison
608-265-3000
union.wisc.edu/visit/terrace-at-the-memorial-union

Olbrich Botanical Gardens
Stroll 16 acres of outdoor gardens featuring stunning landscapes and Midwest-hardy plants. Visit the tropics in the Bolz Conservatory, filled with exotic plants, flowers, orchids, birds, and a waterfall.
3330 Atwood Avenue, Madison
608-246-4550
olbrich.org

University of Wisconsin-Madison Arboretum
The University of Wisconsin-Madison Arboretum features distinct ecological communities, horticultural collections, effigy mounds, more than 20 miles of trails, and a Visitor Center. The arboretum is open to the public daily without charge.
1207 Seminole Highway, Madison
608-263-7888
arboretum.wisc.edu

Wisconsin Historical Museum
The collections of the Wisconsin Historical Museum contain over 110,000 historical objects and nearly 400,000 archaeological artifacts documenting the history of Wisconsin from prehistoric times to the present. On display now: That’s the Ticket, a timeline highlighting the candidates, issues, and outcomes of 40 of America’s past presidential campaigns.
30 N. Carroll Street, Madison
608-264-6555
historicalmuseum.wisconsinhistory.org
**Wisconsin State Capitol**
The Wisconsin State Capitol, in Madison, Wisconsin, houses both chambers of the Wisconsin legislature along with the Wisconsin Supreme Court and the Office of the Governor. The Wisconsin State Capitol is the tallest building in Madison, a distinction that has been preserved by legislation that prohibits buildings taller than the columns surrounding the dome (187 feet). The streets surrounding the building form the Capitol Square, which is home to many restaurants and shops.

2 E. Main Street, Madison  
608-266-0382  
wisconsin.gov

**Wisconsin Veterans Museum**
The award-winning Wisconsin Veterans Museum showcases the history of the many citizens who participated in military struggles from the Civil War to the Gulf War. Displays include a great deal of military paraphernalia, much of it set up in fascinating and informative dioramas. A number of vintage vehicles and warplanes are also on site, including the famous Sopwith Camel and the mighty P-51 Mustang.

30 W. Mifflin Street, Madison  
608-267-1799

**Places to Eat**

**Colectivo on the Square**
Coffee, sourced from origin through farmer and co-op partnerships, independently owned and hand-roasted in Milwaukee’s Riverwest neighborhood. Also tea, espresso, smoothies, pour-over brew bar, and craft beers.

25 S. Pinckney Street, Madison  
608-255-0474  
colectivocoffee.com/cafes/madison-on-the-square

**The Cooper’s Tavern**
Upscale Irish tavern serving pub grub and international beer and wine in a warm, contemporary venue.

20 W. Mifflin Street, Madison  
608-256-1600  
thecooperstavern.com

**The Field Table**
Restaurant, bar, and market featuring daily menus, natural wines, craft cocktails, beers, and coffee in a warm, lively, and light-filled setting. All-day corner farmers’ market includes take-away bowls, salads, sandwiches, soups, organic produce, select artisan cheeses, and baked goods.

10 W. Mifflin Street, Madison  
608-630-9222  
thefieldtable.com/#progressiveamericancuisine

**Fromagination**
A specialty cheese shop featuring 60 Wisconsin artisanal cheeses with perfect pairings in the form of sandwiches, salads, artisan food trays, gift baskets, and more.

12 S. Carroll Street, Madison  
608-255-2430

**Graze Madison**
Lively gastropub plating farm-to-table comfort fare in a modern glass venue with Capitol views.

1 S. Pinckney Street #107, Madison  
608-251-2700  
grazemadison.com/

**Great Dane Pub**
A changing roster of craft brews and pub eats served in a lively venue with beer garden and pool tables.

123 E. Doty Street, Madison  
608-284-0000  
downtown.greatdaneпублиc.com
Heritage Tavern
Upscale New American fare for dinner and weekend brunch served in a classy space with old-world flair.
131 E. Mifflin Street, Madison
608-283-9500
heritagetavern.com

L’Etoile Restaurant
Upscale farm-to-table spot serving French-inspired American fare, wine, and cocktails in an airy venue.
1 S. Pinckney Street #107, Madison
608-251-2700
letoile-restaurant.com

Lucille Madison
Madison’s lunchtime pizzeria and evening neighborhood hotspot with a comforting, open yet intimate industrial feel.
101 King Street, Madison
608-283-0000
lucillemadison.com

Marigold Kitchen
Bright, counter-serve eatery featuring creative breakfast and lunch fare plus outdoor seating.
118 S. Pinckney Street, Madison
608-661-5559
marigoldkitchen.com

Merchant Madison
Industrial-chic gastropub and liquor store serving farm-to-table New American fare and craft cocktails.
121 S. Pinckney Street, Madison
608-259-9799
merchantmadison.com

The Old Fashioned
Wisconsin-themed, retro-style tavern offering beers, brats, and cheese curds (all sourced in-state).
23 N. Pinckney Street #1, Madison
608-310-4545
theoldfashioned.com

Restaurant Muramoto
Stylish spot serving Asian-fusion dishes and creative sushi (with all-you-can-eat deals) and cocktails.
225 King Street, Madison
608-259-1040
restaurantmuramoto.com

Tempest Oyster
Sleek, stylish restaurant featuring oysters and other seafood fare plus live music on weekends
120 E. Wilson Street, Madison
608-258-1443
tempestoyster.com

Going Green with NAAEE

NAAEE is working with Renewable Choice Energy to reduce the environmental impact of our conference.
You can purchase verified emission reductions (VERs) at the registration desk to help balance the carbon dioxide emissions associated with your travel to the conference and use of resources during your stay in Madison. Renewable Choice Energy supports a variety of domestic and international carbon projects that conform to leading standards.

Participation increased 65% between 2014 and 2015. Let’s top that this year!

This program is printed on FSC post-consumer-waste recycled paper with environmentally friendly inks.

Badger State Industries Printing facility has been in operation since the 1930s. BSI Print Services is part of the Department of Corrections vocational training and development program. A seasoned staff oversees fully accredited inmate employees at the Columbia Correctional Institution in Portage, Wisconsin to provide quality, cost effective printing services.

Photos used in the program are from Shutterstock and Monona Terrace, and courtesy of these sites: Wikimedia Commons, Freepik.com, Dreamtime.com, 123rf.com, and goodfreephotos.com.
Monona Terrace & Sustainability

In 2007, Monona Terrace became the first convention center in the nation to earn LEED certification at the silver level. And in late 2015, the center earned the second highest rating possible, **LEED Gold designation.** The LEED rating system, which was developed by the U.S. Green Building Council, is the foremost program for buildings, homes, and communities that are designed constructed, maintained, and operated for improved environmental and human health performance.

**Contributing to its LEED Gold certification, Monona Terrace has:**

- Achieved an energy use rating of 27% below similar facilities across the nation
- Reduced water usage to 46% below the LEED benchmark
- Purchased Green Energy to offset 100% electric power consumption and 100% offset of nonelectric carbon emissions
- Moved to LED technology and away from fluorescent and metal halide lighting
- Led the way in City of Madison departments in using environmentally safe cleaning products to help protect indoor air quality
- Recycled 2,533 pounds of electronic equipment (between May 16, 2014 and May 15, 2015)

Partnering with the **University of Wisconsin-Madison WE CONSERVE program**, Monona Terrace composts more than 20 tons of pre-consumer organic kitchen waste per year, recycling the organic materials into a nutrient-rich soil amendment, which is sold to area farmers and used on campus landscaping projects.

Each year, **Monona Catering donates an average of 8,000 pounds of food to local pantries.** In addition, they use china dishes and cloth napkins for the majority of events and offer biodegradable cups and similar recyclable products when disposables are warranted. Locally sourced foods are prominently featured on menus when possible, including during NAAEE’s meal events. Our Friday evening gala features an all-Wisconsin menu.

Monona Terrace honors the legacy of renowned architect **Frank Lloyd Wright** through its sustainability initiatives. Before the world was talking about green buildings, Wright pioneered an organic approach that employed local materials and solar orientation.

His designs reflected the landscape and created an intimate relationship between humans and nature. Wright first envisioned Monona Terrace at its present site in 1938. His dream became a reality 59 years later.
Exhibit Fair Hours:
Wednesday 5:00 PM–6:30 PM, Thursday 9:00 AM–5:00 PM Friday 9:00 AM–3:00 PM

Acorn Naturalists 22  Project Learning Tree 34
Aldo Leopold Foundation 31  Project Look Sharp 1
Antioch University New England 17  Project WET Foundation 33
Belize Foundation for Research and  Project WILD 35
  Environmental Education (BFREE) 15  Recycling Connections Corporation 4
California Academy of Sciences 9  Routledge 21
Camp Whitcomb/Mason 18  Schlitz Audubon Nature Center 10
Climate Generation: A Will Steger Legacy 6  The University of Michigan 5
Conserve School 26  University of Washington College
Cornell Lab of Ornithology 19  of the Environment 7
Costa Rica Rainforest Experience 3  University of Wisconsin–Madison Arboretum 13
DiscoverE’s Future City Competition 8  University of Wisconsin–Stevens Point 16
Green Schools Alliance 30  U.S. Environmental Protection Agency 29
HHMI BioInteractive 24  U.S. Forest Service 23
International Crane Foundation 32  UWSP Central Wisconsin Environmental Station 12
Merry Lea Environmental Learning Center 14  Wisconsin Association for
Montreat College 11  Environmental Education 28
NAAEE Pavilion  Wisconsin Center for Environmental Education 27
National Park Service 25  Wildlife Acoustics, Inc. 20
Prescott College 2

Check out the interactive exhibitor listings in the conference mobile app.
Download the CrowdCompass Directory from your app store and search for “NAAEE.”
Convention Center Maps
Monona Terrace Level 4

Monona Terrace Level 2
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