41ST ANNUAL CONFERENCE
Gaining Perspective: Seeing EE Through Different Lenses
October 9–13

2012 CONFERENCE PROGRAM

9TH ANNUAL RESEARCH SYMPOSIUM
October 9–10
Welcome to NAAEE and our 41st Annual International Conference

We’re so excited that you are joining us for the 41st Annual NAAEE Conference in the lively city of Oakland, California—ranked as the 5th most desirable destination to visit this year in the New York Times! We hope this conference will be a highlight of your professional year—with opportunities to mingle with talented leaders from around the globe, share your ideas, and take away new thinking that you can replicate in your own work.

This program guide is designed to help you navigate the conference—whether you’ve been coming for years or you’re a first timer.

We encourage you to take advantage of as much as you can—and still find time to socialize and soak up the flavor of the Bay Area. And you won’t want to miss any of our keynote addresses. Not only do we have some terrific speakers, but we will also use the plenaries to make announcements, and give out special prizes throughout the week.

Here are some highlights of the week:

• A provocative Research Symposium, highlighting current research in the field
• A variety of workshops and field trips on Wednesday and Sunday
• An incredible line-up of talented keynote speakers for the week (see page 26 for a listing)
• The welcome reception on Wednesday night at 6:00 PM and conference opening, with Annie Leonard, our speaker for the evening
• A special screening of Disney’s “Chimpanzee” movie, where you can hear from one of Disney’s chief scientists about what the company is doing to support environmental education and conservation. You’ll also get a chance to win a prize. (Make sure to get a raffle ticket!)
• Our yearly auction, jam-packed with special deals: it’s how we raise money for scholarships to the conference and help more people take part in NAAEE activities. This year we’ve got some amazing items to bid on, including a trip for two to the Galapagos on the National Geographic Endeavour worth $11,000 thanks to a very generous donation by Lindblad Cruises
• Two special panels: one focused on Social Media on Thursday afternoon with three amazing women and a youth activist panel on Saturday afternoon to hear more about the power of young people
• A terrific Closing Reception on Saturday from 6-8 PM with Dr. M. Sanjayan, the lead scientist for the Nature Conservancy and a regular on Late Night with David Letterman, and Bob Perciasepe, the Deputy Administrator of the U.S. Environmental Protection Agency

• Our first-ever family festival on Saturday afternoon from 3-6 PM (see page 103)

• The Exhibit Opening, the Authors’ Corner, and the Affiliates Welcome on Friday. (Sample treats from all corners of the country and be sure to meet 12-year-old Pavin Gowda, our youngest-ever participating author.)

• NAAEE’s annual business meeting on Saturday at 11:00 AM to learn more about the Association and our plans for the future

The amount of work that goes into planning a conference of this size is staggering. We wouldn’t be where we are without the work of our wonderful committee chairs and volunteers, the NAAEE board and staff, and so many other members and supporters.

So thanks again for coming to Oakland and for the work you do all year to help create a more just and sustainable world. And we hope you have a great time and get inspired to take your passion for change to the next level!

With warm regards from your leadership,

Pepe Marcos-Iga
President

Judy Braus
Executive Director

Lori Mann
Conference Manager

Celeste Royer
Conference Chair
Welcome

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Join the Fish and Wildlife Service’s Carpool.

For more information about careers within the U.S. Fish & Wildlife Service, and to try the Career Awareness Toolkit, visit our booth and https://YouthGo.gov

Engage, Educate and Employ

www.fws.gov/letsgooutside
THANK YOU TO OUR 41ST ANNUAL SPONSORS!

PLATINUM

GOLD

SILVER

BRONZE
WE COULDN’T HAVE DONE IT WITHOUT YOU!
Developing Future Environmental Stewards
The US Forest Service Conservation Education Program

The US Forest Service Conservation Education program helps people of all ages understand and appreciate our country’s natural resources and how to conserve those resources for future generations. Through structured educational experiences and activities targeted to varying age groups and populations, conservation education enables people to realize how natural resources and ecosystems affect each other and how resources can be used wisely. Through conservation education, people develop the critical thinking they need to understand the complexities of ecological problems. It also encourages people to act on their own to conserve natural resources and use them in a responsible manner.

For more information, visit us at:
www.fs.usda.gov/conservationeducation
October 9, 2012

Dear Members of NAAEE,

Welcome to Oakland! On behalf of my Office, the Oakland City Council and the 400,000 residents of Oakland, I would like to welcome you to the 41st Annual International Conference of the North American Association for Environmental Education (NAAEE) in Oakland, California. We look forward to your visit and trust that you will enjoy the many benefits the conference offers.

Oakland’s landscape is a picturesque mix of lovely hillside neighborhoods, exciting and diverse architecture and a bustling waterfront. There are unparalleled bay views and more parks and open space per capita than any other city in the Bay Area. Oakland is a center for international trade as well as home to the visual and performing arts. It is also one of the nation’s most ethnically integrated cities, which gives our city its strength and an inspired sense of community.

Oakland is one of the most livable and sustainable cities in the nation, and we invite you to learn more about our efforts toward sustainability as we work to improve and enhance the environmental quality of life in our communities. Our cyclists enjoy 109 miles of bikeways, bike-sensitive traffic lights, and 5,300 bike parking spaces. Residents of this port city also have access to an abundance of fresh, organic food, much of which is locally sourced. It is also home to the nation’s cleanest tap water and the country’s oldest wildlife refuge. We are striving to achieve a zero waste goal and be oil-independent by 2020 and we already get 17 percent of our energy from renewable sources.

Oakland was ranked this year by The New York Times as the world’s 5th most desirable traveler’s destination. Environmentally, it was ranked 4th among U.S. cities in the Mother Nature Network’s July 2009 Green Cities rankings and was ranked #4 on the list of the 50 greenest cities in the country by Popular Science. According to the Thumbtack website, Oakland ranks as the 2nd most eco-friendly city in the United States, based on availability of solar panel installation, bicycle repair, chemical-free house cleaning, organic catering, electronics recycling, chemical-free pest control, chemical-free carpet cleaning, sustainable interior design, home energy audits and green architects.

In this regard, the LEED Platinum-rated Tassafaronga Village public housing project received the Association of Bay Area Governments 2011 Growing Smarter Together award for excellence in urban design. In our downtown, Integral Group’s offices achieved the world’s highest LEED for Commercial Interiors score, earning the top-level LEED-CI Platinum designation. The Oakland Convention Center and the Marriott Hotel are also Certified Green by the Alameda County Bay Area Green Business Program.

Perhaps of most importance to this conference, Oakland is also known for its hospitality, and we invite you to enjoy our city, our people, and the rich biodiversity of the area. Best wishes for a successful conference.

Sincerely,

Mayor Jean Quan
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 informed stewardship and a more sustainable society.
NAAEE: Be the change

For more than four decades, NAAEE has been a leader in promoting excellence in environmental education throughout North America. NAAEE is the only national membership organization dedicated to strengthening environmental education and increasing the visibility and effectiveness of the field. With more than 16,000 members and supporters, including affiliations with 53 state and provincial environmental education organizations and members in 30 countries, NAAEE’s influence stretches across North America and around the world.

If you’ve been a member for a while, you might have noticed that NAAEE is going through some exciting changes. We are building on our 41-year foundation and looking ahead to shape our organization in a way that can better meet the environmental and social challenges of the next decade. With support from the S. D. Bechtel, Jr. Foundation, we are working to create an ambitious strategy for going forward. We’d love to get your input, so during the conference, please take time to share your thoughts about NAAEE’s future.

And for those of you who are new to NAAEE, here’s an overview of our key achievements to date:

- **Annual Conference:** NAAEE has convened an annual professional conference for environmental education professionals since 1971, averaging more than 900 participants. As you’ll see, these conferences promote innovation in the field, networking, new tools and resources, and dissemination of best practices.

- **Tools and Resources Promoting Effective Practice:** From its start, NAAEE has provided its members and supporters with access to high-quality professional resources. One of the most significant publications in the last decade has been the “Guidelines for Excellence” series, which help define best practices in the field. (For more information, visit naaee.org)

- **Leadership and Capacity Building:** NAAEE offers unique services in professional development and support, networking, and access to relevant research for both environmental educators and the organizations that train, employ, and support those educators in the United States, Canada, and Mexico.

- **Active Participation in the National Training Consortium since 1990:** As part of the National Environmental Education Act of 1990, the Office of Environmental Education in the U.S. Environmental Protection Agency awards a five-year national training grant to a consortium of organizations. Over the last 22 years, NAAEE has been an integral partner in each consortium.

- **Advocating for Environmental Education:** NAAEE is a non-partisan organization that plays a leadership role in helping to raise the profile of environmental education at the national level and work with key partners to increase funding and support for the field.

- **Providing a Common Ground:** NAAEE has helped to promote the exchange of information and ideas among professionals from all backgrounds and sectors.

We will keep you updated on our planning process and want to thank you all for your support of NAAEE and the field of environmental education. And we are just a phone call, email, Facebook post, blog, or tweet away—so let us know what you’re thinking as we work together to create our future.
This chart provides an overview of general conference activities. For more specific information and locations, please see the detailed daily schedules. Also check the lists of scheduled meetings and special gatherings on pages 45-116.

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<td>4:00-5:15 KEYNOTES: Tom Torlakson, Craig Kielburger</td>
<td>3:00-6:00 Rockin’ with EE Family Festival</td>
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<td>5:00-6:00 Member Meet and Greet</td>
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<td>5:15-6:15 PLENARY PANEL: Cheryl Contee, Rue Mapp, and Molly Tsongas</td>
<td>5:30-7:15 “Chimpanzee” Special screening by Disneynature with an introduction by Anne Savage</td>
<td>6:00-8:00 Conference Closing Reception</td>
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<td>KEYNOTES: Bob Perciasepe M. Sanjayan</td>
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<td>6:00-8:00 Research Symposium Reception</td>
<td>6:00-7:00 Welcome Reception</td>
<td>6:30-8:30 Sponsor Dinner</td>
<td>7:30-8:30 William Stapp Scholarship Auction and Reception</td>
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The Basics

REGISTRATION HOURS

Monday  5:00 PM–6:30 PM
Tuesday  5:00 PM–6:30 PM
Wednesday 7:30 AM–7:00 PM
Thursday 7:30 AM–7:00 PM
Friday   7:30 AM–7:00 PM
Saturday 7:30 AM–2:00 PM

The registration desk is located in the Convention Center Lobby.

NAAEE OFFICE HOURS

Monday  5:00 PM–6:30 PM
Tuesday  2:00 PM–6:30 PM
Wednesday 7:30 AM–7:00 PM  (Closed 11:30 AM–1:30 PM)
Thursday 7:30 AM–5:00 PM  (Closed 11:30 AM–1:30 PM)
Friday   7:30 AM–5:00 PM  (Closed 11:30 AM–1:30 PM)
Saturday 8:00 AM–11:00 AM

The NAAEE office is located in the Convention Center Box Office.
**General Information**

**Auction Items**
Please bring auction items to Room 214 where volunteers will be ready to accept your donation.

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

**Continental Breakfast**
Yogurt, granola, and fruit, along with juice, coffee, and tea are available in the Exhibit Hall.
Thursday 7:00 AM–8:30 AM
Friday 7:00 AM–8:00 AM
Saturday 7:00 AM–8:30 AM

**Exhibit Fair Hours**
Friday 8:00 AM–7:00 PM
Saturday 8:00 AM–3:00 PM

**Jobs and Resumes**
Add your job listing or resume to the notebooks at the NAAEE booth in the Exhibit Hall. Stop by and look for job openings or perfect candidates any time during Exhibit Hall hours. We can also help facilitate informational interviews; ask at the booth.

**Ticketed Events**
To attend the grand opening of the Exhibit Fair on Friday—which includes the buffet lunch, the Affiliates Welcome and dessert bar, and the Authors’ Corner—please be prepared to show your conference nametag or a purchased ticket for the event. Additional tickets can be purchased in the NAAEE office until Wednesday at 11:30 AM.

To attend the Saturday Awards Luncheon and keynote with Gerry Ellis, please be prepared to show your conference nametag or a purchased ticket for the event. Additional tickets can be purchased in the NAAEE office until Thursday at 11:30 AM.

Because NAAEE likes to “give back” to our conference communities, we decided to open three events and invite Oakland and the Bay Area to join us. If you originally purchased guest or participant tickets for the screening of “Chimpanzee,” the Stapp Auction and Reception, or the Saturday night closing dinner, your ticket price will be refunded upon request at the NAAEE office. Please consider donating the value of your ticket to help us cover the costs of these events.

**WiFi Access**
Free WiFi is available in public areas of the hotel and convention center. We’re also offering free WiFi in the meeting rooms; you’ll need a daily use code, which you can pick up each morning at the registration desk. We hope you’ll take advantage of the access to send a few tweets letting folks know what you think of the conference!

You are free to use the computers in the Marriott City Center business center. The business center is open 24 hours per day. Computer use is 55¢ per minute and printing is 22¢ per page.
Concurrent Session Formats

Conference participants will see a wide variety of session types listed in the conference program. NAAEE offers different formats in an effort to accommodate the maximum diversity and number of presenters. Session formats vary in length and degree of depth and interaction.

**Symposia (1 hour, 45 minutes)**
Symposia are panel discussions presenting different perspectives on a common topic. Panels include a minimum of three participants and a moderator offering conversational responses to set questions about a particular field of study or work.

**Roundtable Discussions (60 minutes)**
Roundtable discussions are informal presentations with multiple presenters seated at separate tables in one room. Participants circulate from table to table at will.

**Film Presentations (45 to 75 minutes)**
Film presentations are screenings of films by environmental filmmakers. Filmmakers (or their representatives) are present to provide background and obtain audience feedback.

**45-Minute Presentations (45 minutes)**
Forty-five minute presentations focus on a single topic or program, typically including a talk or media presentation followed by a short discussion or question-and-answer period.

**Poster Presentations (45 minutes)**
Posters are 4-foot x 4-foot presentations illustrating research studies, programs, or other work. Posters are fixed to portable boards for conference participants to review at leisure. While available throughout the conference, the program includes set times for listed presenters to stand by their posters and interact with attendees.

**20-Minute Presentations (20 minutes)**
Twenty-minute presentations focus on a single topic or program, typically including a talk or media presentation followed by questions and answers. NAAEE has tried to pair presentations that are likely to appeal to similar audiences, with the intent that participants attend both sessions. With this in mind, the transition time between 20-minute presentations is very short.

Key to Session Listings

Sessions are grouped by start time so you can readily see everything offered at any given time block. Listings are grouped by type of session, with start and end times clearly indicated in the headings.

Each listing provides the following information. Strands and interest areas are indicated by icons. (see next page) The map on the inside back cover shows room locations. All rooms are in the Oakland Convention Center and Oakland Marriott City Center.

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<tr>
<th>Session Title</th>
<th>Description</th>
<th>Presenter(s):</th>
<th>Strand:</th>
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Recycle-Bowl is a free, friendly competition for K-12 school recycling programs to promote waste reduction activities. School recycling programs across the nation compete in a four-week race to collect the most recyclables. Educational recycling activities are provided via KAB’s Waste in Place resource guide.

**2012 Schedule**

- **Competition Dates:** 10/15 – 11/9
- **America Recycles Day:** 11/15
- **Recycling Reports Due by:** 12/14
- **Winners Announced:** Early February 2013

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REGISTER AT [WWW.RECYCLE-BOWL.COM](http://WWW.RECYCLE-BOWL.COM)

Established in 1953, Keep America Beautiful creates cleaner, greener communities and public spaces by preventing litter, reducing waste, recycling, beautification efforts, and spurring volunteer action. ©2012 Keep America Beautiful, Inc. All rights reserved.
Conference Strands and Interest Areas

Conference Strands
Six thematic strands characterize this year’s conference. Each of these strands explores a different aspect of the environmental education profession.

Conservation Education 🌿
Achieving conservation goals through innovative education, communication, social marketing, and civic tourism strategies

Food and Agriculture 🌾
Educating for informed participation in a farm-to-table food system, connecting food, agriculture, personal health, and technological practices and innovations with the environment

Green Schools 🌿
Exemplary practices that enhance student achievement, conserve natural resources, and reduce the operating costs and environmental footprints of schools

Marine, Bay, and Freshwater Education 🌊
Using the ocean and other aquatic environments as an integrating context for teaching multiple concepts and across disciplines

Networking and Leadership Development 🛡️
Strategic approaches to building our capacity to promote, support, and advance high quality environmental education programs on local, state/provincial, and national levels

Socioecological Education 🌿
Exploring the vital connections between societal, cultural, and environmental concerns; integrating education and activism

Interest Areas
Conference participants can look for sessions applicable to six areas of interest that cut across the thematic strands.

Arts 🎨
Sessions that showcase how the arts can celebrate the environment, deepen our understanding and appreciation of nature, and inspire involvement in environmental issues.

Business/Corporate Sector 🤝
Sessions that explore how businesses incorporate environmental sustainability in their operations, educate employees in environmental and social responsibility, and select environmental projects for corporate support. Sessions also examine the environmental knowledge that businesses are looking for in potential employees.

Careers and Young Professionals 🦂
Sessions aimed at students and young professionals, with a focus on EE careers and resources for job searches.

PreK-16 Education 🏫
Sessions especially for classroom teachers and others interested in developmentally appropriate environmental education practices, instruction, and programs.

Research and Evaluation 🧠
Sessions that report on information resulting from scientific and systematic research and look at methods of assessing and evaluating EE programs, practices, and activities.

Service Learning 🧙‍♀️
Sessions tailored to those interested in the value of and procedures for infusing service learning into environmental education programs and instruction.
Human activities threaten ocean life as never before. The solution is in your hands when you use Monterey Bay Aquarium’s science-based Seafood Watch recommendations to make choices for healthy oceans every time you shop.

It’s easy! Use a pocket guide, or download our free iPhone or Android app. Ask questions! Let staff at your favorite stores and restaurants know that you want to buy ocean-friendly seafood. Become an Aquarium member and support our work.

With your help, Seafood Watch has made a huge difference – shifting the seafood market in favor of sustainable fishing and fish-farming practices. Thank you for helping create a future with healthy oceans.

For more information, please visit us at: montereybayaquarium.org/seafoodwatch

Together we can save the oceans – one meal at a time.
Keeping Fit

NAAEE has negotiated a special arrangement with Club One Fitness, which is across the street from the convention center. Club One is offering passes for $10 per day (discounted from $20 per day) or $45 for a one week pass. The pass includes access to all classes (such as yoga, Pilates, core, cardio, and spin), the fitness center, pool, basketball court, indoor track, squash and racquetball courts, the sauna, and more. Check out the Oakland City Center club at clubone.com. The club also has a Green Initiative.

The Marriott Hotel also has a small fitness center with cardiovascular equipment, free weights, and a heated outdoor pool.

A Few Local Highlights

Old Oakland Farmers’ Market
Right outside the hotel, feast at a fresh market with locally grown produce, nuts, snacks, and crafts. Located on Ninth Street between Broadway and Clay. Fridays, 8:00 AM–2:00 PM

Oakland Museum of California (OMCA)
OMCA brings together collections of art, history and natural science under one roof to tell the extraordinary stories of California and its people. For current exhibits, see museumca.org/exhibitions. Located at 1000 Oak Street. Open Wednesday–Sunday, 11:00 AM–5:00 PM

Jack London Square
Named after the author, Jack London Square is Oakland’s waterfront home to dining, movies, entertainment and special events. Visit Heinold’s First and Last Chance Saloon, originally built in 1880, or catch a live jazz show and sushi dinner at Yoshi’s. Located at the south end of Broadway, a few blocks from the hotel, or at the end of the B Line

Fox Theater
Coming early to the conference? Check out the Grizzly Bears, a Brooklyn-based indie rock band performing Tuesday night. Located at 1807 Telegraph Avenue. See foxoakland.com for tickets and additional show times.

If you’d rather get outside (and who wouldn’t in October in California!), Lake Merritt is about 1 1/4 mile from the Convention Center. A popular 3.1-mile walking/jogging path runs along its perimeter. Lake Merritt is a large tidal lagoon. The California legislature designated Lake Merritt a Wildlife refuge in 1870, making it the first such refuge in North America.
 Paramount Theater
From symphony, to soul, to stand-up comedy and from blues to Broadway shows, come to the Paramount for one of the best shows in town! Located at 2025 Broadway. See paramounttheater.com for tickets and additional show times.

Restaurants
Awaken Café
An espresso bar, organic restaurant, beer & wine bar, performance & event space, live music venue and art gallery. Open Tuesday through Sunday, 7:30 AM-10:00 PM, and Friday and Saturday, 7:30 AM-midnight. Located at 1429 Broadway at 15th

Spice Monkey Café
Features several world flavors and seasonings to create unique mouth watering dishes, all of which are made from scratch. Located on 1628 Webster Street at 17th. Check spicemonkeycafe.com for hours or call 510-268-0170

Bocanova
A Pan-American Kitchen, honoring and adapting the raw materials and culinary sensibilities of Central and South (as well as North) America. Located in Jack London Square, on 55 Webster Street. Check bocanova.com for hours or call 510-444-1233

Flora
Flora is an Art Deco restaurant and bar in downtown Oakland, with carefully crafted cocktails and a menu of reinvented American classics. Located at the corner of 19th Street and Telegraph Avenue. Check flora.com for hours or call (510) 286-0100
Going Green!

Certified Green

The newly renovated Oakland Marriott City Center hotel and Oakland Convention Center are perfect for NAAEE. Certified Green since 2001 by the Alameda County Bay Area Green Business Program, the Marriott was the first Green Hotel in Oakland. Both the hotel and convention center comply with all regulations and meet program standards for conserving resources, preventing pollution, and minimizing waste.

From the paperless check-in process, corn-starch-based drinking cups, and locally-sourced food to diverting about 192,000 pounds of food waste per year through a composting program for the hotel and the neighboring complex of 8 office buildings and 13 restaurants, you’ll notice the many green practices employed by the facilities.

A Few More Steps

NAAEE is partnering with StopWaste.org and the Marriott City Center to add extra composting and mixed-recycling bins throughout key conference and hotel areas. Please read the signs on the bins and carefully separate materials.

NAAEE staff has worked with the convention center’s caterer to maximize the use of locally sourced food (already the hotel’s practice).

Our conference program is printed on 100% post-consumer-waste paper with soy-based inks.

We encourage the use of easily available public transportation while you are visiting Oakland.

We created an online rideshare bulletin board to encourage carpooling.

In collaboration with Renewable Choice Energy, NAAEE is offering the option to purchase Verified Emission Reductions (VERs) to offset the emissions associated with your travel. By purchasing these VERs, you will be offsetting all of the emissions associated with your travel both to and from the conference. Look for the “Carbon Offset” sign in the registration area.
NAAEE and the Affiliates: A Force for Nature

Sessions of Interest for Affiliates

NAAEE’s Affiliate Network is a powerful collective for environmental education and capacity building in the field. The Network represents 53 organizations, each affiliated with NAAEE, that work together to support environmental education professionals throughout the United States, Canada, and Mexico. Since partnering with NAAEE 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, there are a number of sessions that focus on strengthening affiliate organizations, sharing best practices, and building capacity at all levels of the field. Check out these sessions to learn more.

TUESDAY AND WEDNESDAY

Affiliate Workshop, 8:30 AM–4:30 PM

THURSDAY

Certification 101: Exploring the Idea of Creating a Program, 8:30 AM–9:15 AM

Coalition-Building to Support Environmental Literacy Plan Development, Adoption, and Implementation, 8:30 AM–9:15 AM

Financial Planning for an EE Certification Program, 9:30 AM–10:15 AM

Planning for Assessment of Certification Candidates, 10:30 AM–11:15 AM

Advocacy Committee Meeting, 1:00 PM–1:45 PM

FRIDAY

Applying Your Passion to Advocacy: Toolkit 101, 8:00 AM–9:00 AM

EE Literacy Assessment Development among the EPA Region VII States—Iowa, Kansas, Missouri and Nebraska, 8:00 AM–9:00 AM

Planning for Certification Program Evaluation, 8:00 AM–8:45 AM

Certification 102: Learning from Experienced Programs, 10:00 AM–10:45 AM

State Legislation and Gubernatorial Executive Orders: Supporting EE & ELPS, 11:00 AM–12:00 PM

The Oregon Environmental Literacy Plan: From Inception to Implementation, 11:00 AM–12:00 PM

How to Get Your Local EE Certification Program Accredited By NAAEE, 11:00 AM–11:45 PM

Developing Assessments for Gauging the Environmental Literacy of Graduating Seniors, 2:00 PM–3:45 PM

The Roles of Nonprofit Boards; Who Is Responsible for What? 3:00 PM–3:45 PM

SATURDAY

NAAEE Federal Policy Agenda—Making Things Happen for EE, 8:30 AM–9:30 AM

Building the Capacity of EE through Regional Small Grant Programs, 2:00 PM–2:45 PM

Addressing Common Evaluation Needs in State Environmental Literacy Plan Initiatives, 2:00 PM–3:00 PM

Environmental Literacy Plans: Open Space Learning, Sharing and Networking Session, 3:15 PM–5:00 PM
EECapacity at the Conference

NAAEE is one of several partners working to enhance environmental quality by diversifying and strengthening the environmental education field through the EECapacity Project.

In collaboration with the lead partner, Cornell University’s Civic Ecology Lab, this exciting initiative promotes innovation through networking and learning. Funded by the U.S. Environmental Protection Agency, EECapacity is helping to provide multiple platforms for all EE professionals to come together to learn, share, and grow. To learn more about EECapacity’s work, we invite you to participate in one or more of these sessions:

WEDNESDAY

EECapacity: Creating Opportunities for Social Innovation in EE Practices
8:30 AM-4:30 PM

Early Childhood EE—Designing and Implementing Programs That Work
8:30 AM-12:00 PM

THURSDAY

EE Standards for Preservice Education,
8:30 AM-4:00 PM

Certification 101: Exploring the Idea of Creating a Program, 8:30 AM-9:15 AM

Financial Planning for an EE Certification Program, 9:30 AM-10:15 AM

Planning for Assessment of Certification Candidates, 10:30 AM-11:15 AM

Connecting Emerging Grassroots Urban EE and Professional EE Networks,
10:30 AM-11:15 AM

Crosswalking: Identifying Principles of EE in Your State’s Curriculum, 10:55 AM-11:15 AM

Community EE Guidelines: An Opportunity for Input, 2:00 PM-3:00 PM

FRIDAY

Infusing EE into Academic Programs,
8:00 AM-8:45 AM

Planning for Certification Program Evaluation,
8:00 AM-8:45 AM

Certification 102: Learning from Experienced Programs, 10:00 AM-10:45 AM

How to Get Your Local EE Certification Program Accredited by NAAEE,
11:00 AM-11:45 AM

Environmental Literacy and Your Green School: Guidelines for Excellence, 11:00 AM-12:00 PM

National Survey Report: Continuing the Conversation on Supports and Barriers,
11:00 AM-12:00 PM

Embedding EE in our Schools and Communities, 2:00 PM-3:45 PM

EECapacity State Consortia: Capacity Building Through Collaboration and Networking,
2:00 PM-2:45 PM

SATURDAY

Connecting National EE Standards with Common Core Standards, 8:30 AM-9:15 AM

NCATE EE Standards: An Opportunity for Input, 10:45 AM-11:45 AM

Professional Learning Communities: Improving Our Practice Through Collaborative Spaces, 2:00 PM-2:45 PM
CATS Meetings

What the heck are CATS...and why are they so important?
Committees, Advisory Boards, Task Forces and Special Interest Groups (also known as CATS) provide a great chance for each of us to play a more active role in building the NAAEE community and advancing the field of EE. Special Interest Groups (SIGs, previously known as Commissions) are open to all members: be sure to attend a SIG meeting to learn more about how NAAEE members are working on specific areas of interest to the association. A list of CATS and their chairs is available on the NAAEE website. If you are interested in serving on a Committee, Task Force, or Advisory Board, please contact the chair.

CATS MEETINGS AT THE CONFERENCE

Accreditation Board Meeting
Saturday, 7:30 AM–9:00 AM
Members of the Accreditation Board will meet to discuss the next steps in the accreditation program. By invitation.
Chair: Tom Marcinkowski
Room: 212

Advocacy Committee
Thursday 1:00 PM–1:45 PM
The NAAEE Advocacy Committee coordinates the advocacy function for the Association, activating the members, board, staff, other committees, commissions, and councils, and outside stakeholders to work towards increasingly favorable legislative and regulatory environments. Open to all.
Co-Chairs: Traci Price (The Oregon Community Foundation), Brock Adler
Room: 206

CATS Chairs Meeting
Thursday, 7:00 AM–8:30 AM
The business meeting for the chairs of NAAEE’s committees, advisory boards, task forces, and special interest groups. By invitation.
Chair: Pepe Marcos-Iga (NAAEE President)
Room: 204

Diversity Steering Committee
Thursday, 6:15 PM–7:30 PM
Join us for the annual gathering of the Diversity Committee and meet members from across North America. Find out more about our strategy and efforts to broaden participation in NAAEE from diverse communities, ethnicities, and cultural backgrounds. Join the committee if you haven’t already. All are welcome.
Chair: Flisa M. Stevenson (Cornell Lab of Ornithology)
Room: 201

Preservice Advisory Board Meeting
Thursday, 7:00 PM–9:00 PM
We will be discussing the work of the Preservice Advisory Board and welcome all who are interested in learning more about our on-going initiatives to increase EE in Educator Preparation Programs. Come learn about our work and how it can support you, your institution, and your preservice teachers.
Co-Chairs: Courtney Crim (Trinity University) and Elyce Rodewald (Stephen F. Austin State University)
Room: 204

Professional Development and Teacher Education Special Interest Group
Thursday, 6:15 PM–7:30 PM
Come meet others interested in professional development and teacher education and learn what exciting things we are planning for the upcoming year. Then join us as we venture out to socialize and sightsee. Open to all.
Co-Chairs: Teresa Schretter Coker (Green Mountain College), Molina Walters (Arizona State University)
Room: 203

Sustainability Education Interest Group
Thursday 1:00 PM–1:45 PM
Meet the Chair, Co-Chairs, and members of the Sustainability Education Interest Group and learn about how you can get involved in the group’s activities. Open to all.
Chairs: Thomas D. Eatmon (Allegheny College), Tiffany Tillman (Shelburne Farms)
Room: 205

Urban EE Special Interest Group
Thursday, 1:00 PM–1:45 PM
Join other environmental educators interested in building capacity around working in urban communities. This meeting will outline resources, strategies, and open dialogue about what works and what is needed to effectively educate in urban settings.
Chair: Akiima Price (Akiima Price Consulting)
Junior Ballroom 1
Other Scheduled Meetings & Gatherings

EECapacity State Consortia Meetings
Wednesday, 12:00 PM-1:00 PM
Saturday, 7:30 AM-8:30 AM
Year 1 and Year 2 State Consortia representatives are invited to meet and share ideas and experiences, learn from each other, and to plan and reflect on the NAAEE sessions. By invitation.
Room: Oakland (Wednesday)
Grand Ballroom C (Saturday)

Fish & Wildlife Service Annual Meeting
Thursday, 9:30 AM-12:00 PM
Fish & Wildlife Service Annual Meeting
Join your FWS colleagues and partners to learn more about the agency’s efforts with the DOI’s Youth in the Great Outdoors Initiative and share with others the great work you and your region is doing. By invitation.
Room: 204

Guidelines Trainers’ Bureau Meeting
Wednesday, 5:00 PM-6:00 PM
Members of the Guidelines Trainers’ Bureau will meet to recap the year’s efforts and hear about the latest training activities. By invitation.
Room: Junior Ballroom 4

NAAEE 2012-2013 Conference
Saturday, 9:45 AM-10:30 AM
What worked? What didn’t? What would you like to see next year? Help us plan for our 2013 conference in Baltimore by sharing your thoughts on the 2012 conference. We welcome your input and ideas.
Room: 212

NAAEE Annual Business Meeting
Saturday, 10:45 AM-11:45 AM
Join us for an inside look at NAAEE’s exciting new plans for the future. Join NAAEE’s new leadership team, including Judy Braus, Executive Director, Christiane Maertens, Deputy Director, and Jose Marcos-Iga, President, for an update on the health of the organization, the status of our strategic thinking, and how you can get involved!
Room: 203

NAAEE Board Meeting
Saturday, 9:00 AM-10:30 AM
Grand Ballroom C

NAAEE Board Meeting
Sunday, 8:30 AM-12:00 PM
Room: Oakland

Southeastern Environmental Education Alliance
Thursday, 1:00 PM-1:45 PM
Members of SEEA and other affiliates in the southeastern United States will meet to discuss current activities.
Room: 204

University of Michigan Gathering
12:45 PM-1:45 PM
University of Michigan School of Natural Resources and Environment invites SNRE faculty, alumni, and students to lunch at Max’s Diner, 500 12th Street, Oakland City Center.

A Gift That Lives On
Have you ever wished you could support the work of NAAEE in a more meaningful way, but could not afford it or weren’t sure how to do it?

One of the easiest ways you can help is to put NAAEE into your will or living trust. Called a charitable bequest, this type of gift can offer benefits to you and to NAAEE. If you’re interested, just let us know. We can provide official language to share with you and your attorney.
This conference wouldn’t have been possible without the dedication of every person on this list, as well as all of their employers and families. These amazing volunteers gave generously of their time and talents—many working with us for the last three years. 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 spirit in making this conference come to life!

Conference Chair
Celeste Royer

Conference Planning Team
Ryan Brennan
Paul Hart
Pepe Marcos-Iga
Michael Marzolla
Celeste Royer
Peta White

Conference Committees

Affiliate Welcome
Brenda Metcalf, chair

Auction
Zayanne Gardner, chair

Authors’ Corner and Bookstore
Kay Antunez, chair
Mary Blackburn
Jolene Redvale
Jenny Rigby
Marty Rigby

Careers and Young Professionals
Peta White

Field Experiences
Nancy Kaiser, Chair
East Bay Regional Park Staff

Family Festival
Anne Bennett
Rue Mapp
Estrella Risinger
Linda Yemoto

Oakland Life and Culture
Michael Charnofsky, co-chair
Estrella Risinger, co-chair

Cassie Bartholomew
Robb Stolberg

Program Production
Julie Ardoin
Ruth Mann

Publicity and Outreach
Sandi Funke, co-chair
Anne Stephens, co-chair
Laura Powell
Susan Silber

Research Symposium
Justin Dillon, co-chair
Charlotte Young, co-chair
Erin Kelly

Scholarships
Julie Ernst

Social Media
Alisa Royer

Strand Leaders
Conservation Education: Sandy Perchetti
Food and Agriculture: Richard Jurin
Green Schools: Jennifer Seydel
Marine, Bay, and Freshwater Education:
Sarah Schoedinger and Atziri Ibanez
Networking and Leadership Development:
Andree’ Walker Bravo
Socioecological Education:
Sandi Funke and Peta White

Teacher Resources
Claire Menke

Technology
Rob Stewart

Volunteers
Carrie Raleigh, chair
More than 100 onsite volunteers
Conference Proposal Reviewers

We also want to thank the 200 people who took the time to carefully review the record number of proposals submitted for this year’s conference. If you would like to volunteer to review the 2013 proposals, please visit the NAAEE website in November to log in and register. We look forward to working with you in Baltimore!

NAAEE would also like to thank the Oakland Marriott and Convention Center, and the Oakland Visitors Bureau for their help in shaping this conference!

Scholarship Recipients

Oakland Scholarships supported by 2012 NAAEE Sponsors

Again this year, thanks to our 2012 sponsors, NAAEE was able to offer assistance to applicants to attend the annual conference, providing an affordable way to get the professional development that this annual meeting provides. Scholarships for a discounted conference registration were offered to more than 150 people this year. Thanks to the following sponsors for making this happen:

• California Water Services
• Columbia Sportswear
• Disney
• EECapacity
• EE Funders Collaborative
• Great Harvest Bread Company
• Keep America Beautiful
• Monterey Bay Aquarium
• National Geographic
• NOAA
• Pisces Foundation
• NEEF
• USEPA
• US Fish and Wildlife Service
• US Forest Service

ANNOUNCING NEW INTERNATIONAL JOURNAL OF EARLY CHILDHOOD ENVIRONMENTAL EDUCATION
Addressing Issues, Policies, Practices, and Research That Matter

Now accepting manuscripts for possible publication in the inaugural issue (Spring/Summer 2013) of this peer reviewed journal. Submissions of unpublished articles about educational approaches, evaluation models, program descriptions, research briefs (including on-going studies), research investigations, and theoretical perspectives pertinent to the education of all young children (birth to eight years) are invited.

For author’s guidelines and more information, please go to: naaee.net/publications.

And special thanks to the many NAAEE members who have contributed to scholarships through their auction purchases and online as part of conference registration.

Columbia Sportswear Teacher Scholarship Recipients Sunila Varghese-Saunders, 6th grade science teacher and Dr. Joey Jones, principal; Robert Frost Middle School, Montgomery County, Maryland

California Academic Scholarship Recipients Kathayoon Khalil, Doctoral Candidate, Stanford University School of Education, and Galen Wiese, Graduate Student, San Jose State University.
Our Exciting Lineup of Keynote Speakers

The diverse group of keynote speakers for the 2012 conference includes at least two Internet phenoms; a credentialed teacher and former fireman in the U.S. Merchant Marines; several Today Show guests; the youngest-ever graduate of the Kellogg-Schulich Executive MBA program; a member of a think tank for Michelle Obama’s Let’s Move! campaign; the creator of a program that combines endangered species advocacy and tattoo art; and one of Men’s Journal’s “Heroes of 2007.” And that’s just the beginning!

Each of our compelling speakers is an experienced and powerful force for social and environmental change, and each has a track record that is guaranteed to inspire you. You will not want to miss anyone in this illustrious lineup.

**WEDNESDAY**

**ANNIE LEONARD**

The Story of Stuff
7:30 PM–9:00 PM
Exhibit Hall East

Annie Leonard is the author and host of the online film, *The Story of Stuff*, a fast paced, fact filled exposé on the hidden environmental and social costs of current systems of production and consumption. Along with her Story of Stuff Team, Annie has gone on to apply this award-winning approach to other issues that are critical to understanding—and fixing—systems of production and consumption.

For her work raising awareness about waste issues, Annie was named a *Time* magazine Hero of the Environment and has won numerous awards.

**THURSDAY**

**DR. JULIAN AGYEMAN and ANGELA PARK**

EE for the Future: Building on Lessons Learned
Integrating Equity, Inclusion, and Diversity
11:30 AM–12:30 PM
Exhibit Hall East

Julian Agyeman is Professor and Chair of Urban and Environmental Policy and Planning at Tufts University. He is the originator of the concept of ‘just sustainability,’ the full integration of social justice and sustainability, defined as the need to ensure a better quality of life for all, now and into the future, in a just and equitable manner, while living within the limits of supporting ecosystems.

With over 150 publications to his credit, his most recent books include *Environmental Inequalities Beyond Borders: Local Perspectives on Global Injustices* and *Cultivating Food Justice: Race, Class and Sustainability*.

Angela Park is a writer, independent consultant, and founder/executive director of Diversity Matters. Much of her work focuses on the integration of social, environmental, and economic issues and she is a leading expert on diversity in the environmental field in the United States. Angela brings a unique combination of expertise in both high-level policy and organizational development to her consulting and writing. She has more than 20 years of experience on equity, diversity and inclusion, organization development, culture change, sustainable development policy, environmental justice, and leadership.
CHERYL CONTEE, RUE MAPP, and MOLLY TSONGAS
The Power of Social Media to Inspire and Engage
5:15 PM–6:15 PM
Exhibit Hall East

Cheryl Contee, Partner at Fission Strategy, specializes in helping non-profit organizations and foundations use social media to create social good. She is also the co-founder of Jack and Jill Politics writing as “Jill Tubman” on one of the top black blogs online.

Cheryl is included in The Root 100 list of established and emerging African-American leaders. Huffington Post listed her as one of the Top 27 Female Founders in Tech to Follow on Twitter in 2011, and Fast Company named her one of their 2010 Most Influential Women in Tech. Cheryl has appeared in the Washington Post, New York Times, San Francisco Magazine, BBC, and CNN, among other media appearances.

Rue Mapp is the founder of Outdoor Afro, a community that reconnects African-Americans with natural spaces and one another through recreational activities. Outdoor Afro uses social media to create interest communities and events, and to partner with regional and national organizations that support diverse participation in the outdoors. The Outdoor Afro site is now an official partner of the American Camp Association (ACA) to support their national camp diversity initiatives.

In 2010, Rue participated in President Obama’s historical White House Conference on America’s Great Outdoors, and was later invited to take part in a White House think tank for Michelle Obama’s Let’s Move! campaign.

Molly Tsongas has a decade of experience within mission-driven organizations and companies leading communications, advertising, social media and advocacy campaigns. She recently joined Spitfire Strategies, a strategic communications firm for nonprofits and foundations, and previously served as an account manager and strategist at Citizen, a pro-social advertising and design firm. Molly has worked with clients such as World Wildlife Fund, Amnesty International, United Nations, Natural Resources Defense Council, USA Network, the Heinz Endowment, and Rock the Vote.

FRIDAY

DR. WESLEY SCHULTZ
Education, Motivation, and Behavior: Lessons from Behavioral Science
9:15 AM–9:45 AM
Exhibit Hall East

Wesley Schultz is Professor of Psychology at California State University, San Marcos. He is an internationally recognized expert in the areas of behavior and attitude change, conservation psychology, and social marketing and has published extensively in these areas. His most recent book is Social Marketing to Protect the Environment (Sage, 2012). Wesley’s work has been featured in the Wall Street Journal, New York Times, Time, BBC, and NPR, among many others.

TOM TORLAKSON
Environmental Education in California
4:00 PM–5:15 PM
Exhibit Hall East

As chief of California’s public school system and leader of the California Department of Education, Superintendent Tom Torlakson applies his experience as a science teacher, high school coach, and state policymaker to improve the state’s public education system. Tom’s journey has led him from the classrooms of Contra Costa County’s Mount Diablo Unified School District (where he remains a teacher-on-leave), to the Antioch City Council, Contra Costa County Board of Supervisors, and the California State Senate and State Assembly.

During his tenure in the State Legislature, Tom acted to protect education funding, improve student nutrition and physical education, and ensure school safety. In 2001, he authored a bill that created a series of integrated waste management and environmental education mandates for the California Department of Resources Recycling and Recovery.
Craig Kielburger co-founded Free The Children in 1995 at only 12 years of age. Today, he remains a passionate full-time volunteer for the organization, now an international charity and renowned educational partner that empowers youth to achieve their fullest potential as agents of change. Free the Children has worked in 45 countries and built more than 650 schools and school rooms in developing regions, providing education to more than 55,000 children every day.

Craig has received ten honorary doctorates and degrees, The Roosevelt Freedom Medal, The World Children’s Prize for the Rights of the Child (often called the Children’s Nobel Prize) and is one of the youngest recipients of The Order of Canada.

Dr. Savage has traveled the world studying animals. She developed Proyecto Tití, a conservation program designed to conserve Colombia’s most endangered primate, the cotton-top tamarin, through scientific studies, and community development and education projects. As one of the project team members of Mission Himalayas, Anne worked with Walt Disney Imagineering and Conservation International to document the animal life in unexplored regions of Nepal and China, which has led to the discovery of new species that have been shared with the scientific and conservation communities.

With his appointment by President Obama in 2009, Bob Perciasepe returned to the U.S. Environmental Protection Agency to serve as Deputy Administrator—the nation’s second ranking environmental official and the agency’s chief operating officer. In this role, Bob continues a career spanning nearly four decades as one of the nation’s leading environmental and public policy figures. He is widely respected within both the environmental and U.S. business communities.

His extensive experience includes service both inside and outside of government. He served as a top EPA official in the administration of President Bill Clinton—first as the nation’s top
water official and later as the senior official responsible for air quality across the U.S. Prior to his current position, he was chief operating officer at the National Audubon Society.

**DR. M. SANJAYAN**

*Education—A Powerful Tool for Conservation and Our Future*

6:00 PM–8:00 PM

**Grand Ballroom ABCD**

Dr. M. Sanjayan is the lead scientist for the Nature Conservancy, where he specializes in human well-being and conservation, Africa, wildlife ecology and media outreach and public speaking on conservation issues. In addition to being the Conservancy’s lead scientist, Sanjayan holds a doctorate from the University of California, Santa Cruz and has a research faculty appointment with the Wildlife Program at the University of Montana.

In addition to his work with the Conservancy, Sanjayan is a CBS correspondent and a frequent speaker at internationally recognized venues, including the World Forum on Sustainable Development, International Women’s Forum, and TED Global 2010. He is also a Catto Fellow with the Aspen Institute.

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**OUR VOLUNTEERS ARE MIGHTY.**

THANK YOU TO OUR VOLUNTEERS WHO HAVE MADE THE 41ST ANNUAL NAAEE CONFERENCE A SUCCESS!

naaee.org

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**We want to hear from you!**

We hope you had a great experience at this year’s conference!

But we want to hear what you think—what you loved, what you didn’t, and how we can improve. Please take a few minutes to complete the conference evaluation so we can continue to improve our conferences!

Just visit www.surveymonkey.com/s/2012NAAEE and take the survey. Your feedback will help shape our conference in Baltimore next year and future conferences in the future.

THANK YOU!
The District Administration Leadership Institute produces cutting-edge professional development events for K12 school district executives. The Institute’s flagship event, the Superintendents Summit provides new leadership perspectives for the challenges and demands of K12 district administration through a power-packed program combined with top-tier networking with colleagues and specialized interaction with innovative solutions providers.

daleadershipinstitute.com

The District Administration Leadership Institute thanks these leading K12 solution providers for their generous support of the Institute in 2012.
EXPERIENCES TO ENGAGE, ENRICH AND EXCITE.

Embark on an educational adventure with Disney Youth Education Series programs in the information-rich setting of the Disney Parks in Florida. This collection of standards-based, accredited field studies invites students to learn from our expertise. Journey through numerous habitats to observe animals in action. Team up to solve conservation challenges. Or explore exciting careers in marine and zoological sciences. And that’s just the beginning. Put the magic of Disney to work in your lesson plans this year.

Student groups receive specially priced ticket packages which include a guided adventure and theme park admission.

Contact your youth travel planner, visit DisneyYES.com, or call 800-951-8079 to learn more about specially priced group tickets.
PROJECT LEARNING TREE and NAAEE Partners in Environmental Literacy

High-quality professional development

Curriculum materials that support the Guidelines for Excellence

Environmental service-learning

Advocates for an environmentally literate citizenry

Leaders in Environmental Education
NEEF is the nation’s leading organization in lifelong environmental learning, connecting people to knowledge they use to improve the quality of their lives and the health of the planet. We achieve this by providing knowledge to trusted professionals and other leaders who, with their credibility, amplify messages to national audiences to solve everyday environmental problems.

Please visit us at neefusa.org, on facebook at http://ow.ly/7HjRX or on twitter @neefusa.
special sessions & events

**WEDNESDAY**

**Member Meet and Greet**
5:00 PM–6:00 PM

If you’re new to NAAEE or experiencing the complexity of the conference for the first time, come get help navigating the many layers of the conference. Meet NAAEE Board members and find new friends to help you explore what the conference program has to offer. Learn about keynote speakers, traditional events, the exhibit fair, scholarship auction, and the opportunity to join the CATS! During the conference, share a meal, share exciting ideas, share business cards, and begin to foster relationships that may continue far beyond the conference.

Grand Ballroom ABCD

**Conference Opening: It’s a Kick-Off You Won’t Want to Miss**
6:00 PM–9:00 PM

Join us for a warm and welcoming Opening Reception and Evening Program. The evening will start with an opening reception and an opportunity to catch up with old friends and meet new ones. And we’ll have food and spirits to help liven up the conversations! At 7:00 p.m., we’ll start the evening program, with a welcome to Oakland and a chance to hear from your President and Executive Director, and get a chance to win our first door prizes of the conference.

At 7:30 p.m., Annie Leonard, our Keynote Speaker, will take the stage to talk about “Story of Stuff.” Annie is known throughout the world for her work on understanding and fixing systems of production and consumption. She was named a *Time* magazine Hero of the Environment and has won many, many awards for her work. And you won’t want to miss a chance to talk with Annie after the program.

Exhibit Hall East

**THURSDAY**

**Urban Hike Led by Oakland Native Youth**
7:30 AM–8:30 AM

Oakland Native youth will lead participants on an hour-long urban hike. During the hike, Native youth will share information about the natural and cultural history of the area; what it is like to be a Native American growing up in an urban environment; and the importance of urban outdoor experiences to their identity and sense of place. Participants are asked to wear comfortable walking shoes and bring water.

Meet at the 10th Street Entrance

**Native Youth Panel Discussion**
1:00 PM–1:45 PM

Bring your lunch and join us to hear local Native youth share ideas on how to engage Native youth and sustain their involvement in environmental education, conservation leadership, and outdoor programming. This will be an interactive panel discussion.

Room: 208

**FRIDAY**

**Exhibit Fair Grand Opening**
12:00 PM–2:00 PM

Celebrate the opening of the 2012 exhibit fair in grand style with a buffet lunch, the Authors’ Corner, the Affiliates Welcome and dessert bar. Be sure to put in a bid on the silent auction items you covet, and, of course, chat with exhibitors and get your first look at the latest and greatest in environmental education products and services.

**Affiliate Welcome**
This is your chance to meet and greet the Affiliate organization members of NAAEE, and the folks from your home state or province. As you visit each Affiliate display, enjoy tasty tidbits from around North America.
Authors’ Corner
The Authors’ Corner features NAAEE members and other California writers who will be available to discuss and autograph their newest publications. Learn what inspired 12-year old Pavin Gowda to publish his first book, and find out what’s recently caught the interest of President Elect Michael Marzolla. You can purchase books through the conference bookstore, run by Acorn Naturalists, and have them signed by the authors.

At press time, scheduled authors include: Carol Baird, Zenobia Barlow, Drew Beam, Lisa Bennett, Sharon Danks, Pavin Gowda, Tim Grant, John Griffith, Jessica Hammond, Kelly Johnson, Richard Jurin, Jack Laws, David Lukas, Michael Marzolla, Rachel Mazur, Rick Reynolds, Mike Roa, John Robinson, Jacob Sackin, and Dilafruz Williams.

See page 37 for a list of exhibitors and a map of the Exhibit Hall.

Exhibit Hall West

DisneyNature’s “Chimpanzee”
5:30 PM–7:15 PM

Join us for a special screening of Disneynature’s “Chimpanzee,” with an introduction by Conservation Director for Animals, Science and Environment at Walt Disney Parks and Resorts, Dr. Anne Savage, who will discuss what Disney is doing to support environmental education and conservation.

Exhibit Hall East

Stapp Scholarship Auction
7:30 PM–8:30 PM

With items like a trip for two to the Galapagos and guest passes to Disneyland, this is bound to be one of NAAEE’s most energetic auctions yet! Good deals abound in every price range, and each purchase helps to support NAAEE’s student scholarship fund.

Check out Martha Monroe’s handcrafted mugs, books, T-shirts, jewelry, arts and crafts, software, and much, much more. Rumor has it the infamous (and ugly) piranha will be back; how about the priceless rhinestone studded crown? You’ve got to be there to find out!

Silent auction items will be on display in the exhibit hall on Friday and bidding will start at 8:00 AM. During the live auction, different sections of the silent auction will close every 15 minutes. Don’t miss out on the lively last minute rush to ensure your bid is the highest!

This 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 hold leadership positions in the organization.

Exhibit Hall West
**SATURDAY**

**Urban Birding, 7:00 AM-8:30 AM**

Anthony DeCicco of Golden Gate Audubon Society will get Saturday off to a great start with a free early morning bird walk for anyone interested. This will be a local walk or, if time and group size allow, you’ll head to Lake Merritt for California waterfowl. The trip will end in time to get to morning sessions at 8:30 AM. Audubon will provide binoculars if you don’t have your own.

**Meet at the 10th Street entrance**

**NAAEE Awards Luncheon, 11:45 AM-1:45 PM**

Help us recognize NAAEE’s annual award recipients at Saturday’s Awards Luncheon. Awards are presented to individuals and organizations at the local, regional, and national levels, and include the highest honor that NAAEE bestows, the Walter E. Jeske Award.

Gerry Ellis, an award-winning photojournalist will share his spectacular images as he discusses his discoveries to date in his search to answer the question, “Will great apes survive in the wild by the end of this decade?” Gerry has traveled to Rwanda and the Democratic Republic of the Congo.

**Exhibit Hall East**

**Stories from Young Activists: Our Future Is in Good Hands, 2:00 PM-3:00 PM**

Young people throughout the world are stepping up and often leading the way in the environmental field. Three young activists—Ella Van Cleave, Ryland King, and De’Anthony Jones—will share their passion, action, successes, and challenges as activists on behalf of the environment. Their inspiring stories will give you hope for a more sustainable future.

**Junior Ballroom 2&3**

**Rockin’ with EE!, 3:00 PM-6:00 PM**

In NAAEE’s first ever family festival—free and open to conference participants and community members throughout the Bay Area—we’ll be singing and dancing with the Banana Slug String Band, Pacha’s Pajamas, and Billy B. You can get up close with live animals, spin the wheel to test your water IQ, add to a growing natural materials sculpture, learn about tracks, wiggle a worm from a compost bin, and more, more, more! There will be arts and crafts and prizes and surprises! Help us share and celebrate environmental education and come have fun!

**Exhibit Hall East**

**Conference Closing, 6:00 PM-8:00 PM**

Let’s wrap up the week together with an opportunity to hear from two of the country’s leading environmental experts: Bob Perciasepe, Deputy Administrator, U.S. Environmental Protection Agency, and Dr. M. Sanjayan, lead scientist for the Nature Conservancy and CBS science and environmental contributor. Join your friends and colleagues for an inspiring evening of great conversation, delicious bites, spirits, and more.

**Grand Ballroom EFGH**

This event is sponsored by

Be sure to connect to NAAEE on Twitter and get the latest conference updates.

#NAAEE2012 and @NAAEEstaff

Join our Facebook network and stay connected to trending EE information and events!

Search: NAAEE—North American Association for Environmental Education

![NAAEE](https://example.com/naaee.png)
2012 NAAEE Conference Exhibit Booth Assignments

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Exhibit Hall West

Exhibit Hall West

41ST ANNUAL CONFERENCE

Gaining Perspective:
Seeing EE Through Different Lenses

Exhibit Fair: Friday, 8:00–7:00
Saturday, 8:00–3:00

ENTRANCE
NAAEE’s annual Research Symposium brings together more than 100 new and experienced researchers from North America and beyond to explore the current state and future directions of environmental education research and to advance effective practices. This year’s symposium will facilitate discussion about ongoing research, foster dialogue about research-community partnerships, and provide opportunities for graduate students to develop the skills needed to become professional researchers.

While geared to the academic community, all environmental education practitioners are encouraged to attend to enhance their understanding of research’s essential role in the field of environmental education and its implications for our work.

**KEYNOTE SPEAKER**

**DR. PAUL HART**  
*The Elephant in the Living Room: Engaging Issue of Quality and Scholarship in Environmental Education Research*

Dr. Paul Hart is Professor of Science and Environmental Education at the University of Regina and has been Visiting Professor at universities in Zurich, Bath, Durham and Melbourne (Monash). He has published widely in the field of environmental education, is Senior Editor of the Journal of Environmental Education, and Consulting Editor for several other journals. He has received many research awards and has served on the Grants Adjudication Committee for the Social Sciences and Humanities Research Council of Canada. His current research interests are in the area of sociocultural learning and the construction of environmental identity.

The foremost practitioners of sustainability in food and farming have gathered to share their insights and experiences with the Lexicon of Sustainability project, which distributes these ideas using information artworks, short films, study guides, traveling shows, a book and lastly a website where people can add their own terms to this ever-evolving lexicon.

**ABOUT THE ARTISTS**

Douglas Gayeton and Laura Howard-Gayeton live on a farm near Petaluma, California.

Douglas is a filmmaker, photographer and writer. Since the early 90’s he has created award-winning work at the boundaries of traditional and converging media for AOL, MSN, MTV, Napster, Electronic Arts, Vivendi, Ubisoft, *National Geographic* and PBS. His most recent documentary aired on HBO.

Laura has a background as a seasoned commercials producer with over twenty years of industry experience. As a senior executive at The End, Palomar Pictures, Tool of America, and Slo Graffiti she pioneered the art of multilayered narrative approaches to film and video for hundreds of commercial clients.

Douglas is the author of *SLOW: Life in a Tuscan Town*, published by Welcome Books. The award-winning book features a preface by the founder of Slow Food, Carlo Petrini, and an introduction by Alice Waters. Douglas lectures frequently on art, technology and sustainability. His photographs have been printed in *Time* and other magazines and are held in numerous museum and private collections around the world.

While geared to the academic community, all environmental education practitioners are encouraged to attend to enhance their understanding of research's essential role in the field of environmental education and its implications for our work.
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“This book does an excellent job introducing ideas such as adaptation and biodiversity in an easy-to-understand, age-appropriate way.”

~ David Mizejewski, National Wildlife Federation

“As my late father, Jacques Cousteau, used to say, people protect what they love. After reading this story you will fall in love with orcas.”

~ Jean-Michel Cousteau, filmmaker and founder, Ocean Futures Society
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- Enables multiple nonprofits to coordinate and market their services
- Collaboration maximizes impact with minimal investment
- Endorsed and supported by the Environmental Education Funders Collaborative (EEFC)

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800.552.8380 www.antiochne.edu
**Tuesday 8:30 AM**

**Symposium**
8:30 AM–4:30 PM

**Research Symposium**
The 9th Annual NAAEE Research Symposium brings together new and experienced researchers from North America and beyond to explore the current state and future directions of environmental education research and to advance effective practices. To open the symposium, keynote speaker Dr. Paul Hart will address “The Elephant in the Living Room: Engaging Issues of Quality and Scholarship in Environmental Education Research.” (Continues Wednesday)

Coordinator(s): Justin Dillon (King’s College London), Charlotte Clark (Duke University)

**Grand Ballroom EFGH**

**Workshop**
8:30 AM–4:30 PM

**Affiliate Workshop**
This two-day workshop is designed to meet the current needs of NAAEE Affiliate organization leaders. The first day will address business planning. Day 2 will focus on expanding the diversity of affiliate membership, leadership, and program audiences. (Continues Wednesday)

Coordinator(s): Andree’ Walker Bravo (The Utah Society for Environmental Education), Katie Navin (Colorado Alliance for Environmental Education)

**Room: 208**

**Tuesday 6:00 PM**

**Special Session**
6:00 PM–8:00 PM

**Research Symposium Reception**
Research Symposium participants only.

**Room: Skyline**

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**Strands**
- conservation education
- food and agriculture
- green schools
- marine, bay, and freshwater education
- networking and leadership development
- socioecological education

**Interest Areas**
- arts
- business/corporate sector
- careers and young professionals
- preK-16 education
- research and evaluation
- service-learning

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**North American Association for Environmental Education**
**Wednesday 7:30 AM**

*Workshops & Field Experiences*
7:30 AM–5:30 PM

Workshops and Field Experiences start and end at various times and meet in various locations. Please check the current listings at the registration desk.

Lunch is included with all workshops and field experiences, whether full day or half day.

**Wednesday 8:00 AM**

*Symposium*
8:00 AM–9:00 PM

Research Symposium
Student-Faculty Breakfast
By invitation.
*Grand Ballroom Foyer*

**Wednesday 8:30 AM**

*Continuing Sessions*
8:30 AM–4:30 PM

Affiliate Workshop
Continues from Tuesday
*Room: 208*

Research Symposium
Continues from Tuesday at 9:00 AM
*Grand Ballroom EFGH*

**Wednesday 12:00 PM**

*Lunch*
12:00 PM–1:15 PM

Lunch is included with all onsite full day and half-day workshops. Drop in any time between 12:00 PM and 1:15 PM.
*Room: Skyline*
**Meeting**
12:00 PM–1:00PM

EECapacity State Consortia Meeting
Year 1 and Year 2 State Consortia representatives will meet to share ideas and experiences, learn from each other, and to plan for and reflect on the NAAEE sessions. By invitation.

**Room: Oakland**

**Wednesday 5:00 PM**

**Meetings**
5:00 PM–6:00 PM

**Member Meet and Greet**
If you’re new to NAAEE or experiencing the complexity of the conference for the first time, come get help navigating the many layers of the conference. Meet NAAEE Board members and find new friends with whom to explore what the conference program has to offer you. Learn about keynote speakers, traditional events, the exhibit fair, scholarship auction, and the opportunity to join the CATS! During the conference, share a meal, share exciting ideas, share business cards, and begin to foster relationships that may continue far beyond the conference.

**Grand Ballroom ABCD**

**Guidelines Trainers’ Bureau Meeting**
Members of the Guidelines Trainers’ Bureau will meet to recap the year’s efforts and hear about the latest training activities. By invitation.

**Junior Ballroom 4**

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**Wednesday 6:00 PM**

**Opening Celebration**
6:00 PM–9:00 PM

Join us for a warm and welcoming Opening Reception and Evening Program.

The evening will start with an opening reception and an opportunity to catch up with old friends and meet new ones. And we’ll have food and spirits to help liven up the conversations! At 7:00 p.m., we’ll start the evening program, with a welcome to Oakland and a chance to hear from your President and Executive Director, as well as get a chance to win our first door prizes of the conference.

**Keynote Address**

**Annie Leonard**

The Story of Stuff

At 7:30 p.m., Annie Leonard, our Keynote Speaker, will take the stage to talk about “Story of Stuff.” Annie is known throughout the world for her work on understanding and fixing systems of production and consumption. She was named a Time magazine Hero of the Environment and has won many, many awards for her work. And you won’t want to miss a chance to talk with Annie after the program.

**Exhibit Hall East**

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**Welcome** to all our international colleagues!
Thursday 7:00 AM

Meeting
7:00 AM–8:30 PM

CATS Chairs Breakfast Meeting
The business meeting for the chairs of NAAEE’s committees, advisory boards, task forces, and special interest groups. By invitation.
Room: 204

Thursday 7:30 AM

Special Event
7:30 AM–8:30 AM

Urban Hike Led by Oakland Native Youth
Oakland Native youth will lead participants on an hour-long urban hike. During the hike, Native youth will share information about the natural and cultural history of the area; what it is like to be a Native American growing up in an urban environment; and the importance of urban outdoor experiences to their identity and sense of place. Please wear comfortable walking shoes and bring water.
Coordinator: Mary Adelzadeh (Foundation for Youth Investment)

Thursday 8:30 AM

The following sessions all start at 8:30 AM. End times vary with the type of session.

Workshop
8:30 AM–4:00 PM

EE Standards for Preservice Education
Anyone training future teachers should know NAAEE’s strategies for incorporating professional EE standards into their programs: Share sample assessments, activities, and exemplary models. Required for EE program recognition under the U.S. National Council for the Accreditation of Teacher Education.
Presenter(s): Teresa Coker (Green Mountain College), Courtney Crim (Trinity University), Terry Wilson (Western Kentucky University), Molina Walters (Arizona State University), Billy Bennett (Eastern Kentucky University), Melinda Wilder (Eastern Kentucky University), Himanshu Gopalan (Winston-Salem State University)
Strand: 🌱 Interest Areas: 🌿
Room: 211
Room: 213 (1:00 PM–4:00 PM)

Symposia
8:30 AM–10:15 AM

Food Justice and EE: An Interactive Dialogue
This open space session will provide an opportunity for educators working to increase equity and justice in food systems to engage in dialogue around the aspects of this work that most matter to them.
Presenter(s): Elizabeth (Libby) McCann (Antioch University New England), Tania Schusler (Loyola University Chicago), Allan Pearce (Antioch University New England)
Strand: 🌸
Room: Skyline
TogetherGreen: Case Studies in Community Based Conservation with People in Mind
TogetherGreen is a five-year partnership between Audubon and Toyota aimed to build conservation leadership and promote environmental action projects. This panel will discuss remarkable case studies from TogetherGreen fellows and grantees that have successfully involved diverse audiences in conservation action.
Presenter(s): Luisa Arnedo (National Audubon Society), Melissa Hopkins (National Audubon Society), Wei Ying Wong (The Ocean Project), Brent Plater (Wild Equity Institute), John Robinson (On My Mountain, Inc.)
Strand: ⚡️ Interest Areas: 🌿 🌿
Junior Ballroom 4

Film Presentation
8:30 AM–9:50 AM
City Dark
The City Dark chronicles the disappearance of darkness. The film follows filmmaker (and amateur astronomer) Ian Cheney, who moves to New York City from Maine and discovers an urban sky almost completely devoid of stars. He poses a deceptively simple question, “What do we lose, when we lose the night?”
Presenter(s): Winnie Scherrer (Bullfrog Films)
Strand: ⚡️ Interest Areas: 🌿 🌿
Room: Oakland

45-Minute Presentations
8:30 AM–9:15 AM
Building Public, Private and Civic-Sector Partnerships to Create Outdoor Classrooms
Learn how three national non-profit organizations are collaborating in efforts to engage and “green” communities by creation of Nature Explore Classrooms. Discover how public, private and civic-sector partnerships have been developed and evidence-based outdoor classrooms created connecting children with nature.
Presenter(s): Susan Wirth (Arbor Day Foundation/Dimensions Educational Research Foundation), Cecile Carson (Keep America Beautiful)
Strand: ⚡️ Interest Areas: 🌿 🌿
Junior Ballroom 2 & 3

Certification 101: Exploring the Idea of Creating a Program
Experienced certification program representatives will talk about how they did a needs assessment, set up an advisory board, determined the structure of their program, selected a certifying agent, and more. Find a model to help you develop your own program.
Presenter(s): Elizabeth Schmitz (Kentucky Environmental Education Council), Sarah Haines (Towson University), Jennifer Bucheit (The Conservancy for CVNP), Ruth Roperti (PAEE), Andree’ Walker Bravo (The Utah Society for Environmental Education), Jen Dennison (Ohio Division of Wildlife)
Strand:
Room: 210

Civic Engagement and Environmental Education
How can we engage our audiences in contributing to a reasoned public dialogue on today’s hot topics? Explore multiple strategies for civic engagement, such as participatory technology assessment and deliberative forums.
Presenter: Jeanne Troy (Koshland Science Museum)
Strand: ⚡️ Interest Areas: 🌿 🌿
Convention Center, 207

Coalition-Building to Support Environmental Literacy Plan Development, Adoption, and Implementation
With the Environmental Literacy Plan (ELP) movement progressing in every state, the skill of building and nurturing coalitions to support the phases of ELP development is evolving. This session will convene coalition-building experts and EE leaders to share lessons learned.
Presenter(s): Traci Price (The Oregon Community Foundation)
Strand:
Grand Ballroom F
Collaborative Conservation Through Birds and Citizen Science
Learn about an EPA-sponsored effort that connects children to each other and to nature through wikis, citizen science, and outdoor investigations. Find out about the ways these activities impact science knowledge, interest, and conservation action, and find out how you can be involved.
Presenter(s): Jennifer Fee (Cornell Lab of Ornithology), Melissa Pitkin (PRBO Conservation Science)
Strand: Connectedness to Nature in Unique Populations: Questions Remain in Research
Room: 201

Connectedness to Nature in Unique Populations: Questions Remain in Research
Researchers have developed and used various scales to measure connectedness to nature, but where is all the data for various EE programs and how can we create networks to increase our knowledge of this concept among unique populations?
Presenter(s): Shelby Laird (Charles Sturt University)
Strand: Creating Communities of Practice to Advance Environmental Education: A Story from Alberta
Room: 202

Creating Communities of Practice to Advance Environmental Education: A Story from Alberta
The Alberta Council for Environmental Education has brought together environmental educators, connecting them through topic-specific Communities of Practice that increase coordination, collaboration, and community. We will review the program, listen to your suggestions, and invite you to discuss how this might work in your area.
Presenter(s): Christina Pickles (Alberta Council for Environmental Education), Gareth Thomson (Alberta Council for Environmental Education)
Strand: California
Room: 203

Culturing Marine Education: Western Science in Indigenous/Multicultural Environmental Education
Explore how marine educators can integrate traditional ecological knowledge (TEK) and multicultural perspectives into marine education programs. We will discuss how to acknowledge and respect cultural differences to create a learning environment conducive to environmental justice and equity.
Presenter(s): Karen Matsumoto (Seattle Aquarium)
Room: Grand Ballroom C

Ducks Everywhere! Teaching About Human Impact on the Environment
Based on the January 10, 1992 spill of rubber duckies from a cargo ship in the Pacific Ocean, this standards-based social studies and science lesson can be adapted to meet a variety of learners in both formal and nonformal settings.
Presenter(s): Ingrid Weiland (University of Louisville)
Room: 208

Grant-Writing Tips
Writing grant proposals is a communication task: getting funders to understand the strengths of your proposed project and how it meets the funder’s goals. U.S.EPA staff will explain how to develop stronger proposals and avoid pitfalls that result in non-funding.
Presenter(s): Karen Scott, Megan Gavin (U.S. EPA Chicago), Sharon Jang
Room: Grand Ballroom B

Seeing EE Through the Lens of the Youth!
Creative methods to engage teens on Kodiak Island in Alaska involved tapping into diverse projects and sharing youth perspectives with new media and technology. Learn creative ways to connect and reward today’s youth through meaningful environmental service learning projects.
Presenter(s): Shelly Lawson (USFWS Kodiak National Wildlife Refuge), Anelise Zimmer (USFWS Kodiak Refuge YCC)
Room: 209
Using Insects as Environmental Education Vectors to Engage Youth
Learn how environmental educators evolved a bug camp into an academic step leading youth into entomology graduate programs. A unique collection of teaching practices and professionals has turned youth into researchers, event leaders and community experts.
Presenter(s): John Guyton (Mississippi State University, MEEA & SEEA)
Strand: Junior Ballroom 1
Interest Areas: ☕️
Room: Junior Ballroom 1

What Is Education for Sustainability?
Explore what education for sustainability looks like from Pre K to Higher Ed. Together we’ll discuss the roles environmental education, ecological economics, critical thinking, history, science and environmental studies, as well as ethics and social justice play in developmentally appropriate Education for Sustainability.
Presenter(s): Jaimie Cloud (Cloud Institute for Sustainability Education), Randall Curren (Educational Leadership, University of Rochester), Ellen Metzger (San Jose State University)
Strand: ☕️
Room: Grand Ballroom G

Thursday 8:55 AM
The following sessions all start at 8:55 AM.

20-Minute Presentations
8:55 AM–9:15 AM

How Ecoschools Shape Teacher Understandings of the Meaning of Environmental Education
Ecoschools is a school program aimed at increasing the environmental education of students, teachers, administration, staff, and community. The degree to which an Ecoschool shapes and influences teachers’ meanings of environmental education is examined through a descriptive phenomenological study.
Presenter(s): Douglas Karrow (Brock University), Xavier Fazio (Brock University)
Strand: ☕️
Room: 205

A Unique Partnership Forming an Organic Agricultural Training Center
Nurturing soil, organic food, and farmers in the hills of Marin County, College of Marin, Conservation Corps North Bay, and University of California Cooperative Extension have partnered to create a 5.8-acre training center for the next generation of organic farmers.
Presenter(s): Henry Wallace (Conservation Corps North Bay)
Strand: ☕️
Room: 206
Thursday 9:30 AM

The following sessions all start at 9:30 AM. End times vary with the type of session.

Meeting
9:30 AM-11:30 AM

Fish & Wildlife Service Annual Meeting
Join your FWS colleagues and partners to learn more about the agency’s efforts with the DOI’s Youth in the Great Outdoors Initiative and share with others the great work you and your region are doing. By invitation.
Room: 204

45-Minute Presentations
9:30 AM-10:15 AM

Best Practices for Native American Outdoor Youth Programs
Panelists will discuss best practices for engaging Native American youth and sustaining cultural traditions through outdoor education. The panel includes Native American leaders that are working in both rural and urban outdoor settings in California.
Presenter(s): Mary Adelzadeh (Foundation for Youth Investment)
Strand: ❌
Room: 207

Building State Capacity: An Evaluation of the Gray Family Fund
The Gray Family Fund has provided targeted grants to support EE in Oregon since 2008. To better understand their reach and impact, they conducted a summative and formative evaluation of their grant making. Come hear the results.
Presenter(s): Bora Simmons (National Project for Excellence in Environmental Education), Lara Christensen (The Oregon Community Foundation)
Strand: 🌱 🍃
Room: 203

Connections: Our Choices, Ecosystems, and Health Through Integrated Learning
Come learn how a marine debris program for at-risk students at a small charter school led to new friendships, as well as learning about science, art, writing, technology, and public speaking. Community members learned about the issue too.
Presenter(s): Natalie Zayas (CSU Monterey Bay)
Strand: 🌱 🍃
Room: 208

Education for Sustainability: Research, Evaluation, and Practice
Join researchers, evaluators and practitioners in the field of Education for Sustainability as we explore “What works in educating for a sustainable future?” Together we’ll learn what research and evaluation has to say about practices and strategies that cultivate the skills, knowledge, and aptitudes necessary for a sustainable future.
Presenter(s): Joseph Henderson (University of Rochester Warner School of Education), David Hursh (University of Rochester), Dave Chase (DRC Consulting, LLC), Timothy Cottrell (The Harley School)
Strand: 🌱 🍃
Room: 208

Grand Ballroom G

Environmental Education as Taught in Southern Kentucky
The rural, conservative context of place shapes how EE should be addressed and is a gap in the literature. Preservice teachers in Kentucky must be taught EE in a non-threatening, non-leftist way for use in their future classrooms.
Presenter(s): Jeanine Huss (Western Kentucky University)
Strand: 🌱 🍃
Room: 208

Grand Ballroom B

Environmental Leadership Education in Japanese Universities: Multidisciplinary Focus, Field Experience
This presentation introduces challenges to promoting environmental leadership education in Japanese universities that focus on “multidisciplinary approaches” and “field activities.” It will explore how these two emphases contribute to enhancing student learning.
Presenter(s): Sachi Ninomiya-Lim (Tokyo University of Agriculture and Technology)
Strand: 🌱 🍃
Room: 208
Financial Planning for an EE Certification Program
Take home everything needed to develop a financial plan for your state’s EE certification program. Information will include a financial plan framework, budget templates, and fund development strategies. Bring your organization’s budget to participate in this hands-on session.
Presenter(s): Alison Heimowitz (Clackamas Community College), Sarah Haines (Towson University), Andree’ Walker Bravo (The Utah Society for Environmental Education)
Strand: Room: 210

The Long-Term Effectiveness of Experiential Education in Connecting Youth to the Environment
The O’Neill Sea Odyssey provides a hands-on educational experience to encourage the protection and preservation of our living sea aboard a 64-foot catamaran sailing in the Monterey Bay. This study examined the long-term effectiveness of OSO with regards to fostering awareness of environmental stewardship.
Presenter(s): Lauren Hanneman (San Jose State University)
Strand: Room: 202

Meet the BEETLES: Better Environmental Education Teaching, Learning, Expertise and Sharing
BEETLES (Lawrence Hall of Science) designs research-based professional development for residential environmental education programs. BEETLES improves teaching of science concepts by engaging learners in their own observations, investigations and in-depth discussions. Interested in improving your PD and revitalizing instruction in your program?
Presenter(s): Craig Strang (Lawrence Hall of Science), Kevin Beals (Lawrence Hall of Science, BEETLES: Better Environmental Education, Teaching, Learning, Expertise & Sharing)
Strand: Grand Ballroom C

Teaching Watershed Ecology and Environmental Justice Through Scientific Inquiry
Participate in engaging, center-based activities to learn about the ecology and chemistry of the San Francisco Bay. We will discuss how watershed study can be used as a focus to learn about pollution, food chains, and issues of environmental health and justice.
Presenter(s): Deborah Zierten (KIDS for the BAY), Jonah Landor-Yamagata (KIDS for the BAY), Bhavana Mody (KIDS for the BAY)
Strand: Grand Ballroom F

Using Data and Tools to Promote Environmental Health
How can you access data and tools to promote environmental health at community, state, and national levels? Participants will learn about and view live portal demonstrations of the National Environmental Health Tracking Program Network and California Environmental Health Tracking Program.
Presenter(s): Natalie Collins (California Environmental Health Tracking Program)
Strand: Room: 201

Watershed Outreach Professionals’ Behavior Change Practices, Challenges, and Needs
Is your organization effectively promoting environmentally responsible behaviors? Interested in applying evidence-based behavior change strategies? Come learn about proven behavior change strategies, tips for implementing them, and “lessons learned” based on the experiences of organizations in the Chesapeake Bay Watershed.
Presenter(s): Kaitlin Phelps (University of Michigan School of Natural Resources and Environment), Meghan Kelly (University of Michigan), Carrie Roble (University of Michigan), Samuel Little (University of Michigan)
Strand: Room: 206

We Are One in Song
Aka’ula students and Joyce Rouse (Earth Mama) co-host this environmental song writing, sing-along workshop. Throughout our lives, music shapes our individual and group character. Experience how environmental messages and calls to action are empowered through song.
Presenter(s): Joyce Rouse (MUSE, Earth Mama, BRDC)
Strand: Junior Ballroom 1
**Poster Sessions**

9:30 AM–10:15 AM

**Addressing Climate Change Controversy and Denial to Support Green Schools**
How can we counter those who deny the implications and responsibility for human impacts on climate and the environment by those who accuse Green Schools and supporters of brainwashing children to become eco-activists?
Presenter(s): Mark McCaffrey (National Center for Science Education)
Strand: **Exhibit Hall East**

**Building Community Through Storytelling**
Storytelling can turn something personal into something shared. Schools in Wisconsin have begun to share their environmental education/sustainability stories through the EEinWisconsin.org Storytelling Project. Discover how schools are developing environmental and sustainability literacy to create powerful learning opportunities.
Presenter(s): Katie Boseo (University of Wisconsin-Stevens Point)
Strand: **Exhibit Hall East**

**CLEAN—Finding Reviewed Climate and Energy Resources to Enhance Teaching**
Learn how to use and contribute to the CLEAN website to find scientifically and educationally reviewed climate and energy science resources, for grades 6-16. This is aligned with the Climate and Energy Literacy Principles that help students become environmentally and sustainability literate.
Presenter(s): Tamara Ledley (TERC), Frank Niepold (NOAA)
Strand: **Exhibit Hall East**

**Contextual Teaching and Learning: A Case Study for Environmental Education**
This research is a case study that investigates contextual teaching and learning (CTL) approaches as a method of teaching for natural resources educators. CTL relates academic material to real world scenarios that can increase student engagement and knowledge retention.
Presenter(s): Kim Greene (Oregon State University)
Strand: **Exhibit Hall East**

**Effects on Environmental Awareness of Elementary School Students Using Teaching Tools for Ecological Survey**
This study aims to develop science club activity programs and apply them to elementary school students in order to research effective science club activities. The programs use an ecological survey based on this research as a teaching tool.
Presenter(s): Kee Dae Kim (Korea National University of Education)
Strand: **Exhibit Hall East**

**Estero del Yugo: Wetland Conservation and Environmental Education**
This 11-hectare site contains fresh and saltwater lagoons with a patch of tropical dry forest allowing children to have contact with nature and recognize its role in providing important environmental services.
Presenter(s): Eunice Murua (Centro de Investigación en Alimentación y desarrollo)
Strand: **Exhibit Hall East**

**Nature Walking Deconstructed: Sensuous Experiences and Place Making in Nature**
This qualitative study investigated two researchers’ connections to and sensuous experiences of nature while walking in outdoor, nature-based spaces. Data collection methods included photographic documentation, artistic renderings, item collecting, written reflections, journaling, walking, and collaborative reflection/debriefing.
Presenter(s): Vanessa Klein (Kent State University)
Strand: **Exhibit Hall East**
Understanding How Language Shapes Children’s Ideas about the Environment
This qualitative study explored young children’s use of Chinese language in their descriptions of the environment. Findings indicate language influences environmental ideas in different ways. Comparisons to English language and implications for equity in environmental education are discussed.
Presenter(s): Bryan Wee
(University of Colorado Denver)
Strand: 🌍  Interest Areas: 🌍

Exhibit Hall East

Using Visualization Tools to Investigate Real-Time Data from the Southern Sierra Critical Zone Observatory
Google Fusion Tables is a free, web-based data visualization program that is simple, fun, and interactive. Learn how to utilize real-time and archived data to teach students about climate and water resources.
Presenter(s): Allyson Smith (UC Merced)
Strand: 🌍  Interest Areas: 🌍

Exhibit Hall East

20-Minute Presentations
9:30 AM–9:50 AM

Saving the Bay: Making Connections with Multimedia
Engage students and the public in learning about estuarine environments with digital media-based resources from the award-winning PBS documentary, “Saving the Bay.” Promote stewardship of the environment through historical and current-day examples of human impact on San Francisco Bay.
Presenter(s): Andrea Swensrud (KQED), Nancy Yamamoto (KQED)
Strand: 🌍  Interest Areas: 🌍

Room: California

Student Writing in Globe Flexe Student-Scientist Forums
This international project engaged students in inquiry-based activities and written communication with each other and with deep-ocean scientists. We compared the effects of personalized and non-personalized scientist feedback on student writing in web-based forums. Differences were found in student response focus and accuracy.
Presenter(s): William Carlsen (Penn State University), Susan Krosunger (The Pennsylvania State University)
Strand: 🌍  Interest Areas: 🌍

Room: 205

Thursday 9:55 AM

The following sessions all start at 9:55 AM.

20-Minute Presentations
9:55 AM–10:15 AM

KIC-NET: Urban Youth Becoming Stewards of Urban Waters Through Service Learning
We’re creating hyper local urban water education. KIC-NET (Keep It Clean—Neighborhood Environmental Trios) partners Denver’s schools, parks and public works. Kids learn integrated, site-specific content, gain civic action skills, and conduct environmental service. Come see our toolkit.
Presenter(s): Donny Roush (Earth Force)
Strand: 🌍  Interest Areas: 🌍

Room: California

Creating Virtual Fieldwork Experiences (VFEs) that serve as educational resources for your classroom. Making VFEs requires detailed study of the environment and documents fieldwork. Bring a laptop and digital pictures to start your own, or receive training to use later.
Presenter(s): Don Duggan-Haas (PRI & Its Museum of the Earth)
Strand: 🌍  Interest Areas: 🌍

Room: 205
**Film Presentation**
9:55 AM–10:15 AM

**Chasing Water**
Breathtaking photography tells the story of the Colorado River, which flowed to the sea for 6 million years and now dries up 90 miles short of the Sea of Cortez.
Presenter(s): Winnie Scherrer (Bullfrog Films)
Strand: Room: Oakland

**Thursday 10:30 AM**

The following sessions all start at 10:30 AM. End times vary with the type of session.

**45-Minute Presentations**
10:30 AM–11:15 AM

**Addressing the Common Roots of Climate Change and Social Inequity**
The Bay Area’s sprawl has contributed enormously to Climate Change and to segregation and social inequities that persist today. Now, diverse communities are working to ensure that Climate Change initiatives within transportation and land-use reduce disparities in access to opportunity.
Presenter(s): Lindsay Imai Hong (Urban Habitat)
Strand: Room: Skyline

**The Benefits of Reflection in a Field-Based Environmental Education Program**
This highly interactive session introduces participants to BioSITE, a field-based environmental program where high school students teach fourth graders. Learn about the program’s field journaling techniques and build your own journal to encourage reflection on science and sense of place.
Presenter(s): Biret Adden (Children’s Discovery Museum of San Jose), Sandra Derby (Children’s Discovery Museum of San Jose)
Strand: Room: Grand Ballroom F

**California’s Blueprint for Environmental Literacy: How You Can Participate**
Learn how you can participate in shaping California’s first comprehensive Blueprint for Environmental Literacy. State Superintendent of Public Instruction Tom Torlakson is leading the Blueprint effort and is working collaboratively with dozens of stakeholder groups to garner a rich diversity of perspectives.
Presenter(s): Craig Cheslog (California Department of Education), William Andrews (California Environmental Education Foundation), Deborah Moore (Green Schools Initiative)
Strand: Room: Junior Ballroom 1

**Collaboration: Better Results and More Grants, Too**
Can nonprofits increase natural science education for schools by collaborating? Will funders work together to not only support, but also increase, funding for this approach? Does this approach increase student learning? YES! We did it and so can you!
Presenter(s): Allan Berkowitz (Environmental Volunteers), Carol Olson (Morgan Family Foundation)
Strand: Room: 201

**Connecting Emerging Grassroots Urban EE and Professional EE Networks**
Many novel and vibrant EE initiatives are emerging in cities across the US. However, these efforts and professional environmental educators often use different networks. Find out how the EECapacity Project is helping connect emerging grassroots efforts and EE professionals.
Presenter(s): Marianne Krasny (Cornell University), Judy Braus (NAAEE), Akiima Price (Akiima Price Consulting), Jose Marcos-Iga (Environmental Education Exchange), Augusto Medina (EECapacity Project)
Strand: Room: 203

**Conservation Education: Connecting to Global Case Studies Through Multimedia**
This insightful multimedia discussion examines what we can learn from global conservation case studies and how we can bring these stories into the classroom. Case studies include UNITE for the Environment (Uganda), Okapi Conservation Project (DRC), and Lincoln Park Zoo (Chicago).
Presenter(s): Tara McCarthy (Green Living Project), Mark Ardagna (Green Living Project)
Strand: Room: Junior Ballroom 4
Forests, Carbon and Climate
Rainforest Alliance and Project Learning Tree share hands-on lessons to help students understand the carbon cycle and the role forests play in climate change. Deforestation accounts for 17% of global greenhouse gas emissions, equivalent to the world’s entire transportation sector.
Presenter(s): Maria Ghiso (Rainforest Alliance), Lindsay Clark (Rainforest Alliance), Al Stenstrup (American Forest Foundation)
Strand: 🌿  Interest Areas: 🌿
Room: Junior Ballroom 2 & 3

GREENevada: Growing Resources For Environmental Education In Nevada—Successful Collaboration
GREENevada, Growing Resources for Environmental Education in Nevada, is a collaboration between seven non-profits in Reno. Through partnership and sharing resources, we have created a student competition and provided $45,000 towards implementing student-led sustainability projects in local high schools.
Presenter(s): David Gibson (Envirolution), Skye Telka (Urban Roots Garden Classrooms)
Strand: 🌿  Interest Areas: 🌿
Room: 202

The History, Challenges, and Perspectives of Environmental Education in Taiwan
In 2010, the Environmental Education Act was passed in Taiwan after over 17 years of effort. All government officials and people in schools need to experience environmental education for at least 4 hours every year. The history, challenges, and perspectives of environmental education will be discussed in this study.
Presenter(s): Shin-Cheng Yeh (Environmental Protection Administration)
Strand: 🌿  Interest Areas: 🌿
Room: 212

A Holistic Curriculum in Grades 4-8
After exploring guiding principles that promote critical thinking, equity, environmental responsibility and community service, participants will practice hands-on activities related to topics such as bird migration, human food systems and ecological footprints. Free copies of these activities will be provided.
Presenter(s): Tim Grant (Green Teacher)
Strand: 🌿  Interest Areas: 🌿
Room: Grand Ballroom C

Next Steps in Education for Sustainability
Be part of the future of Sustainability Education and Education for Sustainability. Join the facilitated planning on the next steps in sustainability education for the NAAEE Sustainability Education Interest Group and local, national, and international partners.
Presenter(s): Thomas Eatmon (Allegheny College), Matt Ferkany (Teacher Education, Michigan State University), Kyle Whyte (Michigan State University)
Strand: 🌿
Room: Grand Ballroom G

Planning for Assessment of Certification Candidates
What’s the “right” way to assess certification candidates? In a structured program with a cadre assessed at the same time, or through a decentralized approach where they are assessed when they’re “ready”? Learn more about each method from program representatives.
Presenter(s): Katie Navin (CAEE), Elizabeth Schmitz (Kentucky Environmental Education Council), Sarah Haines (Towson University)
Strand: 🌿
Room: 210

PLT GreenSchools!
PLT’s GreenSchools! program connects PLT classroom activities and environmental service learning projects. Meet the PLT GreenSchools! team from San Diego and learn more about the program, access resources and materials online, and how it can work for you.
Presenter(s): Kay Antunez de Mayolo (CA Dept. of Forestry and Fire Protection)
Strand: 🌿  Interest Areas: 🌿
Grand Ballroom B
Promoting Leadership Through Citizen Science in Out-of-School Time
The California Academy of Sciences and Cornell Lab of Ornithology use citizen science to capitalize on the afterschool environment while building bridges between afterschool programs, school administrators, teachers, and youth. Although they differ in strategic approaches, both programs emphasize leadership techniques designed to build capacity and empower stakeholders.
Presenter(s): Courtney Rudd (California Academy of Sciences), Jennifer Fee (Cornell Lab of Ornithology), Katie Levedahl (California Academy of Sciences)
Strand: Community Involvement Interest Areas: Room: California

Film Presentation
10:30 AM–11:15 AM
Community Involvement: Creating a Film for the Juan Bautista De Anza National Historic Trail
Check out the recently completed “official” introductory film for the Juan Bautista de Anza NHT. We will discuss community involvement strategies used in the development of the film.
Presenter(s): Naomi Torres (National Park Service), Neil Markowitz (E3)
Strand: Community Involvement Interest Areas: Room: Oakland

20-Minute Presentations
10:30 AM–10:50 AM
Re-Imagining Inquiry in Place-Based Education
Discover a unique model for incorporating student-directed inquiry into classrooms and residential programs. This model encourages students to build on each other’s knowledge and emphasizes inquiry as a nonlinear process, leading to new questions rather than definitive answers.
Presenter(s): Stacey Perry (Southern Oregon University), Kiersa Benson (Southern Oregon University), Kathryn MacDiarmid (Southern Oregon University)
Strand: Community Involvement Interest Areas: Room: 208

Revaluing Indigenous Knowledge: Exploring Environmental Education Within Traditional Territories
A resident in Ojibway territory and a coordinator with the International Get to Know Your Wild Neighbors Program, Joel Krupa will share his work on building interactive education models that effectively engage indigenous people in diverse environmental education initiatives.
Presenter(s): Joel Krupa (Get to Know)
Strand: Community Involvement Interest Areas: Room: 205

Successes and Challenges in Rural Learning Partnerships
Collaborative efforts between tribal, conservation and advocacy groups create unique opportunities and challenges in environmental education. We will lead an interactive discussion about the field’s accomplishments and struggles and consider innovative approaches to advance this complex pedagogy.
Presenter(s): Rachel Durben (Sierra Streams Institute)
Strand: Community Involvement Interest Areas: Room: 206

What Should We Measure to Assess “Environmental Literacy”?
States, nations and international groups are developing assessments to gauge the degree to which learners have become environmentally literate. Learn the competencies, dispositions, knowledge, and behaviors they’re pursuing; and find out how this work can be applied in your efforts.
Presenter(s): Karen Hollweg (Framework for Assessing Environmental Literacy), Jason Taylor (Nature Talks LLC), Tom Marcinkowski (Florida Institute of Technology), William McBeth (University of Wisconsin Platteville), Joe E. Heimlich (Ohio State University Extension)
Strand: Community Involvement Interest Areas: Room: 207
**Thursday 10:55 AM**

The following sessions all start at 10:55 AM.

**20-Minute Presentations**

10:55 AM–11:15 AM

Crosswalking: Identifying Principles of EE in Your State’s Curriculum  
A guide for identifying meaningful and engaging EE learning principles in the NAAEE guidelines with often rigid test-based standards.  
Presenter(s): Noah Talerico (University of Texas San Antonio), Christine Moseley (University of Texas at San Antonio)  
Strand: 🌿  Interest Areas: 🌿  
Room: 207

Improving the Quality of Education for the Children of Galapagos  
We will present a multi-year program undertaken by a Galapagos NGO to improve the education of the children in Galapagos. This initiative could contribute to the conservation of Galapagos while making it a model of best education practices.  
Presenter(s): Diego Roman  
Strand: 🌿  Interest Areas: 🌿  
Room: 206

Place as Panarchy: Transformation, Ecological Identity, Environmental, and Indigenous Education  
This presentation illuminates the interrelationships of complexity theory, indigenous pedagogy, and transformation in relation to education, activism, and place. Using engaging activities and interactive multi-media, we will model and explore how place-based education resembles a panarchical system of adaptive change.  
Presenter(s): Nicholas Stanger (University of Victoria)  
Strand: 🌿  Interest Areas: 🌿  
Room: 205

Using Inquiry to Promote Conservation Education and Action  
Inquiry is an effective educational methodology that can be an integral component of environmental and conservation action. Here, we share how inquiry can be used to actively engage community members, graduate students, and working professionals in direct conservation action.  
Presenter(s): Jill Korach (Miami University), Christopher Myers, Lynne Myers, Stephanie Stowell, Jamie Anzano  
Strand: 🌿  Interest Areas: 🌿  
Room: 208

**Thursday 11:30 AM**

**Keynote Address**

11:30 AM-12:30 PM

Dr. Julian Agyeman and Angela Park  
EE for the Future: Building on Lessons Learned  
Integrating Equity, Inclusion, and Diversity  

**Julian Agyeman** is Professor and Chair of Urban and Environmental Policy and Planning at Tufts University. He is the originator of the concept of “just sustainability,” the full integration of social justice and sustainability, defined as the need to ensure a better quality of life for all, now and into the future, in a just and equitable manner, while living within the limits of supporting ecosystems.

With over 150 publications to his credit, his most recent books include *Environmental Inequalities Beyond Borders: Local Perspectives on Global Injustices* and *Cultivating Food Justice: Race, Class and Sustainability*.

**Angela Park** is a writer, independent consultant, and founder/executive director of Diversity Matters. Much of her work focuses on the integration of social, environmental, and economic issues and she is a leading expert on diversity in the environmental field in the United States. Angela brings a unique combination of expertise in both high-level policy and organizational development to her consulting and writing. She has more than 20 years of experience on equity, diversity and inclusion, organization development, culture change, sustainable development policy, environmental justice, and leadership.

*Exhibit Hall East*
Thursday 1:00 PM

Meetings
1:00 PM–1:45 PM

Advocacy Committee
The NAAEE Advocacy Committee coordinates the advocacy function for the Association, activating the members, board, staff, other committees, commissions, and councils, and outside stakeholders to work towards increasingly favorable legislative and regulatory environments.
Co-Chairs: Traci Price (The Oregon Community Foundation), Brock Adler (Community Foundation)
Room: 206

Southeastern Environmental Education Alliance
Members of SEEA and other affiliates in the southeastern United States will meet to discuss current activities.
Coordinator: John Guyton (Mississippi State University)
Room: 204

Sustainability Education Interest Group
Meet the Chair, Co-Chairs, and members of the Sustainability Education Interest Group and learn about how you can get involved in the group’s activities. Open to all conference participants.
Co-Chairs: Thomas D. Eatmon (Allegheny College), Tiffany Tillman (Shelburne Farms)
Room: 205

Urban EE Special Interest Group
Join other environmental educators interested in building capacity around working in urban communities. This meeting will outline resources, strategies, and open dialogue about what works and what is needed to effectively educate in urban settings.
Chair: Akiima Price (EECapacity)
Junior Ballroom 1

Special Session
1:00 PM–1:45 PM

Native Youth Panel Discussion
Bring your lunch and join us to hear local Native youth share ideas on how to engage Native youth and sustain their involvement in environmental education, conservation leadership, and outdoor programming. This will be an interactive panel discussion.
Strand:  
Room: 208

Thursday 2:00 PM

The following sessions all start at 2:00 PM. End times vary with the type of session.

Hands-On Presentations
2:00 PM–3:00 PM

3D-Visualization Techniques Augmented by Hands-On-Interactives for Freshwater Education and Stewardship
Scientists and informal science education professionals at UC Davis and Lawrence Hall of Science at UC Berkeley present an innovative NSF-funded project utilizing cutting-edge 3D technologies in combination with traditional hands-on-interactives to enhance and better communicate issues on freshwater lake ecosystems and stewardship required to protect them.
Presenter(s): Rashmi Nanjundaswamy (Lawrence Hall of Science, UC Berkeley), Heather Segale (UC Davis Tahoe Berkeley).
Room: 208

The 4Rs Student Action Project—Reducing Waste Beyond the Classroom
Learn how StopWaste.Org’s 4Rs (Reduce, Reuse, Recycle, Rot) Student Action Project empowers 5th grade students in Alameda County to take action addressing real environmental issues at school and home through a 5-step, Green Star Action Planning curriculum model.
Presenter(s): Cassie Bartholomew (StopWaste.org), Angelina Vergara (StopWaste.org)
Room: 208

Addressing Common Evaluation Needs in State Environmental Literacy Plan Initiatives
This session will provide a forum in which leaders in state ELP initiatives will discuss: a) unique features of their ELPs; b) common features of their ELPs; and c) assessment and evaluation needs within and across ELPs.
Presenter(s): Susan McGuire (self-employed), Tom Marcinkowski (Florida Institute of Technology)
Room: 203
Community Environmental Education Guidelines: An Opportunity for Input
NAAEE is in the process of developing a new set of exciting guidelines, focusing on how environmental education outcomes can consider and connect with quality of life issues for communities. Come, learn more and provide your feedback!
Presenter(s): Akiima Price (EECapacity), Bora Simmons (National Project for Excellence in Environmental Education)
Strand: 🌱 Interest Areas: 🌱
Room: 210

Cultivating Science Outdoors in Your Garden with FOSS and Outdoor Biology Instructional Strategies
Use a garden space or a schoolyard as an outdoor laboratory to bridge science experiences indoors to the outdoor environment. Participate in a sampling of outdoor garden activities designed to strengthen curricular connections and increase environmental awareness and ecoliteracy.
Presenter(s): Karen Mendelow Nelson (UC Berkeley), Joanna Snyder (Lawrence Hall of Science), Erica Spencer
Strand: 🌱 Interest Areas: 🌱
Grand Ballroom F

Cultural Proficiency in Environmental Education
After a brief introduction to the tools of cultural proficiency, participants will examine and discuss best practices and barriers to culturally proficient environmental education. Together, we will begin creating a cultural proficiency continuum for environmental educators.
Presenter(s): Nate Ivy (Alameda County Office of Education)
Strand: 🌱 Interest Areas: 🌱
Grand Ballroom C

Green Schools Grow in a Concrete Jungle
Environmental Charter Schools (ECS) are pioneers in the green school movement and have been leading the way for past 12 years. We will explore how ECS has jumped the “red tape” and have created creative ways to share its curriculum and success through the Green Ambassador Institute.
Presenter(s): Sara Laimon (Environmental Charter Schools/Green Ambassadors), Vanessa Carter (Occidental Arts and Ecology Center)
Strand: 🌱 Interest Areas: 🌱
Room: California

Outdoor Education for Persons with Special Needs
Guadalupe River Park Conservancy believes that nature is not only wheelchair accessible, but open to persons with developmental disorders and physical impairments. GRPC will lead a hands-on workshop on how to adapt environmental programs for participants with special needs.
Presenter(s): Kristjana Eyjólfsdóttir (Guadalupe River Park Conservancy), Joe Salvato (Guadalupe River Park Conservancy), Terry Ferguson (Guadalupe River Park Conservancy)
Strand: 🌱 Interest Areas: 🌱
Grand Ballroom G

Surviving Environmental Despair, Disaster, Conflict: Community Resilience Through Playfulness and Creativity
Fun, fascinating, timely: why “playfulness is a survival skill.” This interactive workshop combines activities, research, current and historical examples, exploring how play and creativity have helped save communities from despair, disaster and conflict related to environmental issues, war and beyond.
Presenter(s): Aliza Weller (Nunavut Impact Review Board)
Strand: 🌱 Interest Areas: 🌱
Room: Skyline

U.S. Fish & Wildlife Service Schoolyard Habitat Project Guide and Program
The Schoolyard Habitat Program partners with schools to create native wildlife habitat on school grounds. The authors will walk through the steps of the Project Guide to familiarize you with the process of creating restoration projects at schools and building lasting community partnerships.
Presenter(s): Carolyn Kolstad (U.S. Fish and Wildlife Service), Karleen Vollherbst
Strand: 🌱 Interest Areas: 🌱
Grand Ballroom B

Waste In Place: Hands-on and Fun Solid Waste Focused Activities for Youth and Adults
Experience youth activities for Pre K-6th grade that focus on litter prevention, beautification, and recycling. Participants will explore activities including Garbage Pizza, Working Toward an Environmental Solution and more. Meet the new community of characters that bring the public, civic and private sectors and learn about them through stories and games.
Presenter(s): Cecile Carson (Keep America Beautiful)
Strand: 🌱 Interest Areas: 🌱
Room: 204
Panel Presentation
2:00 PM–3:00 PM

Investigating the Effectiveness of Garden-Based Programs
Do garden-based programs make a difference? Research and evaluations at Brooklyn Botanic Garden, Edison Elementary School (Kalamazoo, Michigan) and Ching-Yang Farm (Taiwan) investigated the impacts of three different garden-based programs. Find out what they discovered about learner outcomes.
Presenter(s): Elizabeth Goodill (New York University), Mary Leou (New York University), Jennica Skoug (Central Wisconsin Environmental Station), Thomas Quinn (University of Wisconsin-Stevens Point), Min-Hwang Liang (Department of Nature Resources and Environment, National Donghua University, Taiwan)
Strand: 🌿 Interest Areas: 🌐
Junior Ballroom 4

Film Presentation
2:00 PM–3:00 PM

Blues Planet: Sounds, A Film by Wyland, Narrated by Dr. Sylvia Earle
Blues Planet: Sounds is a powerful and moving visual masterpiece that sheds light on the environmental challenges of our day and the many people who through art, music, and science are today creating an environmental renaissance.
Presenter(s): Michelle Jones (Division of Forestry and Wildlife—Hawaii Environmental Education Alliance)
Strand: 🌿 Interest Areas: 🌐
Room: Oakland

45-Minute Presentations
2:00 PM–2:45 PM

Building the Field of Environmental Education Through Collaboration
This presentation will explore how the Environmental Education Collaborative is mapping the field of environmental education and developing a Theory of Change regarding how to address these key barriers in an integrated manner.
Presenter(s): Jason Morris (NatureBridge)
Strand: 🌿 Interest Areas: 🌐
Room: 202

Poster Presentations
2:00 PM–2:45 PM

Challenges of Environmental Behavior Modeling Through Environmental Education: A Case Study of Students in Ivory Coast
Modeling in social sciences has greatly contributed to strengthen the link between exact sciences and social sciences. Although the main difficulty is to reconcile them epistemologically, environmental education in this production tries to overcome this failure by modeling student’s environmental behavior
Presenter(s): Kabran Djane (University of Cocody)
Strand: 🌿 Interest Areas: 🌐
Exhibit Hall East

Climate-Smart Community-Based Ecological Restoration in the North Bay
Learn how PRBO Conservation Science’s Students and Teachers Restoring A Watershed (STRAW) Project developed a climate change-adapted ecosystem restoration design implemented by students to create a watershed resilient to uncertain changes in our climate.
Presenter(s): Vanessa Wyant (PRBO Conservation Science)
Strand: 🌿 Interest Areas: 🌐
Exhibit Hall East
Engaging Under-Represented Oakland Youth in Environmental Science Research
As an example of an effective model for transforming attitudes toward science and the environment, Oakland youth from the East Bay Academy for Young Scientists present findings from air and water quality research they’ve conducted in communities impacted by environmental injustice.
Presenter(s): Tony Marks-Block (East Bay Academy for Young Scientists), Kevin Cuff (East Bay Academy for Young Scientists)
Strand: Exhibit Hall East
Interest Areas: 🌿

Implementation of a School Garden: Who, How, and Impact
This pilot study examines the purpose behind a school garden in a single case study; the vision of the volunteers that made the project happen, and the impact the garden program had on students.
Presenter(s): Kimberly Yates (Montana State University)
Strand: Exhibit Hall East
Interest Areas: 🌿

Including Indigenous Knowledge and Pedagogies In Science-Based Environmental Learning Programs
In this session, the necessary components for environmental education programs that include indigenous knowledge and pedagogies will be considered, along with a possible means to evaluate the effectiveness of attempts to make environmental education programming more culturally relevant.
Presenter(s): Natalie Swayze (University of Winnipeg), Dawn Sutherland (University of Winnipeg)
Strand: Exhibit Hall East
Interest Areas: 🌿

The New UCCE California Naturalist: Stewardship Through Discovery and Action
The California Naturalist Program is an exciting and innovative collaboration between UCCE and local sponsors such as the Santa Barbara Botanic Garden. Aspiring naturalists enroll in a 40-hour course that combines classroom and field experience in science, problem solving, and interpretation.
Presenter(s): Judy Sanregret (Santa Barbara Botanic Garden)
Strand: Exhibit Hall East
Interest Areas: 🌿

Protecting Our Ocean One School at a Time
The NOAA Ocean Guardian School program works directly with schools to implement a stewardship project that has resulted in thousands of pounds of trash removed from local beaches and single use plastics banned at school functions.
Presenter(s): Naomi Pollack (NOAA Office of National Marine Sanctuaries)
Strand: Exhibit Hall East
Interest Areas: 🌿

Restoration Education at an Urban Wildlife Refuge
Hands-on habitat restoration projects engage students and make them active partners in protecting our environment. Using examples from our program (4th grade through college), we will highlight the key ingredients for a successful restoration education program at your site.
Presenter(s): Eugenie Moore, Tia Glagolev (USFWS)
Strand: Exhibit Hall East
Interest Areas: 🌿

A Tipping Point on Best Practices of EE And Stewardship?
Teachers demonstrate success in “Best Practices of Environmental Education and Stewardship.” An external evaluation was conducted with teachers who participated in a three-day institute showcasing PLT, WILD, and WET using an Inquiry Focused learning approach. Follow-up assistance was key.
Presenter(s): William Andrews (California Environmental Education Foundation)
Strand: Exhibit Hall East
Interest Areas: 🌿
Trends in Environmental Behavior in the Bay Area
Researchers collected responses from over 800 visitors to the California Academy of Sciences regarding their environmental behaviors. Analysis of this data set presented compelling trends in environmental behavior among this population and within sub-populations including by age, gender, and education level.
Presenter(s): Kathayoon Khalil (Stanford University)
Strand: Interest Areas: 🌿
Room: Exhibit Hall East

20-Minute Presentations 2:00 PM–2:20 PM

Developing Online Community of Practice with Canadian EE Network Leaders
Canadian environmental education network leaders face similar, yet different, networking and leadership challenges than members of NAAEE’s largely American Affiliates Network. My thesis project explored the value of an online community of practice for Canadian EE network leaders.
Presenter(s): Eli Baker
Strand: 🌿Interest Areas: 🌿️
Room: 206

Graduate-Level Team-Taught Service-Learning Integrative Course Combines SE with PBE
UVM graduate-level Integrating Analyses course combines Sustainability education with place-based education. Graduate student teams research four special sites of the Burlington landscape and present their findings, telling stories rich in imagery and maps and developing highly useful websites.
Presenter(s): Thomas Hudspeth (University of Vermont)
Strand: 🌿Interest Areas: 🌿️
Room: 212

Healthy Living, Healthy Planet: Connecting Fitness and Environmentalism
With growing concern about childhood obesity and excessive indoor “screen time,” outdoor fitness classes can encourage kids to be active while connecting with nature. Come learn about programs that connect healthy living to the preservation of a healthy planet.
Presenter(s): Jaclyn Peterson (Lincoln Park Zoo)
Strand: 🌿
Room: 207

How Nature Works for You—Making Conservation Accessible, Relevant and Fun
Nature: It’s more than just a faraway beach or mountain. It’s a fantastic factory that makes the building blocks of all our lives—food, drinking water, the stuff we own and the air we breathe. Presenting Nature Works Everywhere (natureworkseverywhere.org).
Presenter(s): Sara Elliott (The Nature Conservancy)
Strand: Interest Areas: 🌿️
Room: 205

20-Minute Presentations 2:25 PM–2:45 PM

Places of Activism in Education: Place as a Pedagogical Tool to Address Socioecological Issues
Places are profoundly pedagogical. We will interactively discuss many places of activism in education from a variety of perspectives including a) geography of poverty and homelessness; b) youth activism in an integrated outdoor education program; and the symbiotic balance between nature time and tech time in the 21st century.
Moderator(s): Eli Baker (Columbia Basin Environmental Education Network)
Presenter(s): Karen McIver (Saskatchewan Outdoor and Environmental Education Association), Marc Spooner (Faculty of Education, University of Regina), Kyle Lichtenwald (SOEEA)
Strand: 🌿Interest Areas: 🌿️
Room: 212

Questing: Community, Placed-Based Treasure Hunts in Environmental Education
Quests are place-based treasure hunts for everyone. Using rhyming clues and way-finding skills, participants find their way to a hidden treasure. Questing stirs the mind, cultivating a deeper sense of place and awareness of our surroundings.
Presenter(s): David Berman (Westminster Woods Environmental Education Program)
Strand: 🌿Interest Areas: 🌿️
Room: 205
Saving Antioch Dunes: Citizen Science in Action
Sandwiched between a drywall factory and a power plant is an ancient landscape, home to critically endangered species. Here, citizen scientists gather data and communicate the importance of this place just a 30-minute drive from Oakland.
Presenter(s): Ian Signer (Intelligent Play)
Strand: Interest Areas: Room: 207

Tracking Partnerships in EE Using Interactive GIS Maps
Learn about methods being developed in Florida to track partnerships in EE. This innovative research using maps and databases can be applied to any region and will help supplement funding requirements for federal legislation to improve EE in schools.
Presenter(s): Cynthia Clairy (Florida Gulf Coast University), Marguerite Forest (Florida Gulf Coast University)
Strand: Interest Areas: Room: 206

Thursday 3:15 PM
The following sessions all start at 3:15 PM. End times vary with the type of session.

Symposia
3:15 PM-5:00 PM
Becoming a Green School
This interactive session will provide an overview of the various dimensions of a green school through a case study review, research review, and a panel discussion with representatives from Green Ribbon School award recipients.
Presenter(s): Jennifer Seydel (Green Schools National Network), Alison Suffet-Díaz (Environmental Charter Schools), Susan Toth, Cheryl Schnell (Island City Research Academy)
Sharon Danks (Bay Tree Design, Inc.)
Strand: Interest Areas: Junior Ballroom 2 & 3

Beyond the Lens: Screen and Discuss NAAEE Participants’ EE Films
More and more environmental educators are producing films to convey concepts. In this symposium 10 films submitted by NAAEE attendees, will be viewed, reviewed, probed, prodded and exalted by an expert panel and everyone else in the room. Join in!
Moderator(s): Ryan Vachon (Earth Initiatives & University of Colorado at Boulder)
Presenter(s): Nathaniel Kramer (Earth Initiatives), Jenn Glaser (Earth Initiatives)
Strand: Interest Areas: Room: 212

Environmental Literacy Plans: Open Space Learning, Sharing and Networking Session
Environmental Literacy Plans are a collaborative effort. Join us to capitalize on experiences of states across the country by using Open Space Technology to discuss and generate solutions for the most pressing environmental literacy issues and challenges in your state.
Presenter(s): Traci Price (The Oregon Community Foundation), Katie Navin (CAEE), Grace Manubay (District Department of the Environment)
Strand: Interest Areas: Grand Ballroom B

Friends in High Places: Bringing New Partners to Environmental Education
Environmental education is facing serious funding threats, but we have the potential for promoting extraordinary partnerships. This session introduces an elite panel of EE stakeholders, NAAEE, NRPA, NWF, and NEEF who will address key issues for this challenging economical climate.
Moderator(s): Flisa Stevenson (Cornell Lab of Ornithology)
Presenter(s): Judy Braus (NAAEE), Allen Cooper (National Wildlife Federation), Richard Dolesh (National Recreation and Park Association), Jennifer Tabola (NEEF)
Strand: Interest Areas: Room: Skyline
Lessons Learned from Engaging Underrepresented Youth in Ocean Sciences
Learn about three grant-funded programs from Lawrence Hall of Science that seek to engage underrepresented students in ocean sciences through multiple interdisciplinary opportunities. Hear about lessons learned from project directors, evaluators, and participants to inform future ocean sciences education projects.
Presenter(s): Emily Arnold (Lawrence Hall of Science), Emily Weiss (Lawrence Hall of Science), Sarah Pedemonte (Lawrence Hall of Science)
Room: Junior Ballroom 4

Partnerships in Climate Research: Phenology Monitoring in Environmental Education
Learn about the importance of phenology, climate change, and YOU from the National Phenology Network’s Citizen Science Program. Hear how NatureBridge and the California Phenology Project are working together to model phenological monitoring in an environmental education setting!
Presenter(s): Kerri McAllister (NatureBridge Golden Gate), Elizabeth Matthews (University of California, Santa Barbara/The California Phenology Project), Susan Mazer (University of California, Santa Barbara)
Room: 207

Film Presentation
3:15 PM–4:35 PM

Green Fire: Aldo Leopold and a Land Ethic for Our Time
The Green Fire film shares highlights from Leopold’s life and career, explaining how he shaped conservation in the 20th century and continues to inspire people today. The film also highlights modern EE efforts connecting people and land at the local level.
Presenter(s): Jennifer Kobylecky (Aldo Leopold Foundation)
Room: Oakland

45-Minute Presentations
3:15 PM–4:00 PM

Climate Change and Southeastern Forests: A New Project Learning Tree Secondary Module
This presentation will introduce a new Project Learning Tree secondary module focused on climate change and southern pine forests, demonstrate an activity, and provide draft activity handouts for educators.
Presenter(s): Martha Monroe (University of Florida), Al Stenstrup (American Forest Foundation), Stephanie Hall (University of Florida), Jie Li (University of Minnesota)
Room: Grand Ballroom C

Come Discover Nature Explore Classrooms: Not Just Another Outdoor Classroom!
Play with tree cookies, see a tree house, and shake a rain-stick! This is all part of a Nature Explore classroom—built by youth! Join us to learn more and find out how you can do this at your site!
Presenter(s): Susan Wirth (Arbor Day Foundation/Dimensions Educational Research Foundation), Mary Danno (U.S. Fish and Wildlife Service)
Room: Junior Ballroom 1

Estuaries and Climate: Science Stories and Lesson Plans
Learn how estuaries, including San Francisco Bay, are being impacted by climate change. Even better, receive lesson plans and helpful hints on how to teach about estuaries and climate change in your classroom, on the trail, or in a creek.
Presenter(s): Sarah Ferner (National Estuarine Research Reserve), Anne Marie Tipton (California State Parks)
Room: 203

An Ethical Vision: Embracing the Earth Charter in Higher Education
Learn how to incorporate the Earth Charter on your campus. This presentation showcases a variety of ways in which the Earth Charter can be used in higher education based on successful models.
Presenter(s): Sarah Davis (Florida Gulf Coast University)
Room: 201
Interview Strategies: Old Games with Innovative Twists!
Join Aquarium educators to experience engaging, successful strategies used to select new program participants. Gain techniques for transforming every-day games into insightful activities! Aquarium educators offer their expertise and activity descriptions to help you select participants from an applicant pool!
Presenter(s): Tritia Moneypenny (Monterey Bay Aquarium), Pamela Neeb Wade (Monterey Bay Aquarium)
Room: California

Mangrove Dilemma: What To Do With An Invasive Species?
Introduced to Molokai in 1902 to prevent soil erosion, mangrove is a threat to the marine ecosystem as it “marches” towards the barrier reef. Working with community members, students developed a demonstration project to determine the best way to remove this invasive species.
Presenter(s): Vicki Newberry (Aka`ula School)
Room: 210

NPS Pollution: Who’s the Bad Guy?
If you’re going to present on NPS pollution with watershed model, you have to take time to present solutions. We’ll decide who the “bad” guys are and then we’ll confront them! Talking TO people, not AT them will drive the next environmental revolution.
Presenter(s): Stewart Jenkins (Coastal Watershed Council)
Room: 204

Partnerships, Programs, and People: Building an EE Program that Works for Partners
Join us to explore “Public Lands Investigations” a hands-on, direct, resource-based educational experience for middle school science classes provided by partners of the Grand Valley Regional EE Network.
Presenter(s): Jennifer Phillips (Bureau of Land Management)
Room: 206

A Road Map Towards Justice Centered Environmental Education
Eco Education’s session will explore the implementation of internal change strategies that centered justice in a twenty-year old environmental education organization and how those changes led to cutting edge, equity focused programming co-created by staff, community members and youth leaders.
Presenter(s): Caty Royce (Eco Education), Lea Favor
Room: 202

Structuring Engaging Outdoor EE Lessons for Any Audience
Learn how to structure a flow to outdoor EE lessons that maintains control of youthful energy without seeking to stifle it. This model was developed in an urban EE center and is usable in virtually any outdoor setting.
Presenter(s): Amtchat Edwards (U.S. Forest Service), Vicki Arthur (U.S. Forest Service)
Room: 206

Symbiosis: Public Schools, Community Resources, EE and University Teacher Programs
Fifteen years of research and development show the effectiveness of an EE-enriched university pre-service teacher program in Texas that uses place-based capstone EE events. Explore the evolution of community partnerships, research topics, and inclusion of online students.
Presenter(s): Elyce Rodewald (Stephen F. Austin State University Gardens), Alan Sowards (Stephen F. Austin State University), Cheryl Boyette (Boyette Consulting/Adjunct SFASU), John Boyette (Texas Forest Service), Zoe Stinchcomb (Texas Parks & Wildlife/Texas Freshwater Fisheries Center)
Room: 206

Grand Ballroom G
20-Minute Presentations
3:15 PM–3:35 PM

Increasing Our Capacities Through Strategic Partnerships and Innovative Approaches
How can we increase the number of youth accessing the outdoors and relevant environmental education when resources are diminishing? Timely evaluation and strategic partnerships helped us create a successful local natural history guide and professional development trainings.
Presenter(s): Nancy Caplan (National Park Service at Golden Gate National Recreation Area), Charity Maybury (Crissy Field Center)
Strand: Interest Areas: Room: 205

Greensources: A Model for Resourcing Community EE in Public Schools
Discover a model for designing online repositories of sustainability education and helping teachers tap into community resources to promote place-based environmental literacy.
Presenter(s): Noah Talerico (University of Texas San Antonio), Christine Moseley (University of Texas at San Antonio)
Strand: Interest Areas: Room: 205

Thursday 4:15 PM

45-Minute Presentations
4:15 PM–5:00 PM

American Indian Responses to Environmental Challenges
American Indian Responses to Environmental Challenges is a comprehensive online educational program that shares the stories of four native communities’ strategies to overcome environmental problems that threaten their natural and cultural identities through community-centered proactive interventions.
Presenter(s): Ed Schupman (National Museum of the American Indian), Jerrell Cassady, Clare Cuddy (National Museum of the American Indian), Mark Kornmann (NA)
Strand: Interest Areas: Room: 201

Environmental Awareness and Action Through a Community-Based Survive Learning Project
This presentation will introduce the Environmental Awareness and Community Action Project (EACAP), a community service learning project in an undergraduate environmental science course. We will discuss students’ projects

Thursday 3:40 PM

20-Minute Presentations
3:40 PM–4:00 PM

Beyond Knowing and Doing: The Psychosocial Implications of Environmental Education
What does it mean to be an effective environmental educator today? Drawing on current research, this workshop addresses the unique psychological challenges we face in our work on such difficult topics as climate change, biodiversity and habitat loss.
Presenter(s): Richard Kool (Royal Roads University), Gabrielle Hebert (Phoenix Zoo)
Strand: Interest Areas: Room: 210

Can Environmental Attitudes Change Through an International Outdoor Education Program?
During 2009 a program evaluation was done to see if an outdoor education program that takes Colombian students to Ontario, Canada for 27 days achieves the objective of changing attitudes towards the environment in fourth grade students.
Presenter(s): Natalia Sanz de Santamaria (SELVA: Research for Conservation in the Neotropics)
Strand: Interest Areas: Room: 208

Simple Solutions, Profound Results—Changing Attitudes Through Conservation
The shoreline of a small creek was choked with debris until students from a local university worked together to transform the shoreline into native habitat. This case study documents the transformation of the land and the perspective that ensued.
Presenter(s): Nora Demers (FGCU), Laurie Coventry-Payne
Strand: Interest Areas: Room: 208

Environmental Awareness and Action Through a Community-Based Survive Learning Project
This presentation will introduce the Environmental Awareness and Community Action Project (EACAP), a community service learning project in an undergraduate environmental science course. We will discuss students’ projects
and the impact on their awareness of issues and willingness to take action.
Presenter(s): Mahsa Kazempour (Penn State Berks), Aidin Amirshokoohi
Strand: 🌿 Interest Areas: 🌿
Room: 202

Growing Florida’s Green Generation with Green Schools Recognition Program
Palm Beach County’s Green Schools Recognition Program encourages Florida schools to become cultures of sustainability through advancements such as schoolyard enhancements, conservation practices, curriculum integration, and administration involvement. These innovations are adaptable and obtainable for all schools to accomplish.
Presenter(s): Jamie Rottura (Pine Jog Environmental Education Center), Veronica Freh
Strand: 🌿 Interest Areas: 🌿
Room: California

Including Spirituality in EE Programs Without Upsetting Anyone
Promote a spiritual understanding of the world as a way to understanding our sanity and our psychological health, and the health of the environment by connecting with people on a level they will accept without conflicting with already established beliefs.
Presenter(s): Richard Jurin (University of Northern Colorado), Deb Matlock (Wild Rhythms, LLC)
Strand: 🌿 Interest Areas: 🌿
Junior Ballroom 1

Kids and Nature National Youth Poll—Understanding Current Connections, Barriers, and Attitudes
The Nature Conservancy will unveil results of a 2011 youth survey that assessed time spent in nature and attitudes about the environment. The survey was part of an effort to strengthen connections between youth and the natural world.
Presenter(s): Brigitte Griswold (The Nature Conservancy), Rue Mapp (EECapacity
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom G

Mapping Oceans, Rivers and Watersheds with Free Tools from Google
Would you like to incorporate new place-based technologies into your programs? Discover how to create media-rich, interactive, science-based maps that connect students to local marine and aquatic environments and enhance learning.
Presenter(s): Andrea Swensrud (KQED)
Strand: 🌿 Interest Areas: 🌿
Room: 211

Scientific Inquiry Through Student Field Investigations: Project Wild’s Expansion
Student-centered outdoor investigations sound great, but can educators really pull this off? Yes! Through this session, formal and nonformal educators will gain knowledge and practical tips for implementing outdoor field investigations that follow best practices for developing scientific inquiry.
Presenter(s): Marc LeFebre (Council for Environmental Education)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom C

Urban Expeditions in New York City and San Francisco
New York City and San Francisco provide unparalleled opportunity for experiential learning. On Outward Bound Urban Expeditions, students travel the city’s neighborhoods to discover the forces that shape our world. Engage with people, food, and places. Come explore with us!
Presenter(s): Jillian Rubio (New York City Outward Bound Schools), Aiko Yoshino (Outward Bound California)
Strand: 🌿 Interest Areas: 🌿
Room: 203

Youth in the Great Outdoors: Engaging, Educating, and Employing Youth in the U.S. Fish and Wildlife Service
Participants will learn about the most effective ways to navigate the sometimes confusing federal organizational infrastructure to find the best expertise and funding available for incorporating a career focus into environmental education programs.
Presenter(s): Drew Burnett (U.S. Fish & Wildlife Service), Scott Owen (U.S. Fish & Wildlife Service), Maria Arnold (Office of Youth, Partnerships, and Service)
Strand: 🌿
Grand Ballroom F
Building Capacity with Cob in the Schools
Cob is a relatively inexpensive building material, similar to adobe, consisting of clay, sand, straw, and water. It can be used to create artistic sculptural forms, is sustainable in its construction, and is only limited by your own creativity.
Presenter(s): Skye Telka (Urban Roots Garden Classrooms)
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East

Effects of an Applied Ecological Education Program on the Ecological Literacy of Elementary School Students
This study investigated the effects of an applied ecological education program on the ecological literacy of elementary school students in Korea. The program is an action-based ecology education program that looks how abiotic factors in ecosystems affect—or act on—biotic organisms.
Presenter(s): Kee Dae Kim (Korea National University of Education)
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East

Environmental Education and Conservation Internships and Interns Nationwide
Are you seeking an internship or an intern in environmental education or conservation work? Look no further! The Student Conservation Association offers year round opportunities and helps recruit and place college-age interns in all 50 states.
Presenter(s): Bettina Mok (Student Conservation Association)
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East

Environmental Education Through the Lens of Diverse Children
Minority children are changing the demographics in the United States, but their voices are not heard. A phenomenographic study is proposed to identify the qualitatively different ways diverse students from elementary school understand environmental education to let them have a voice.
Presenter(s): Brissa Quiroz (The University of Texas at El Paso)
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East

Escuela Verde: Integrating Ecopedagogy, Environmental Justice and Project-Based Learning
Located in Milwaukee, Escuela Verde is a community of self-determined learners engaged in sustainable transformation. Organized through a teacher coop, staff and young people connect through a democratic learning community using Environmental Justice as an integrated context for learning.
Presenter(s): Joey Zocher (Escuela Verde)
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East

The Greening of Our Schools: Does It Matter?
There is a dearth of research linking green school practices and student achievement to support EE efforts and generate support for the US green schools movement. Using a nationwide online survey, we attempt to understand the relationship between green school practices and student achievement.
Presenter(s): Bryan Wee, Hillary Mason (University of Colorado, Denver), Jason Abdilla (University of Colorado, Denver)
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East

Impacts of an Overseas Climate Change Experience on American Youth
In this presentation, I will share and thematically summarize some of the differing impacts that a month-long study of climate change in the developing world had on a group of racially, ethnically, and socioeconomically diverse American teens.
Presenter(s): Sarah Stapleton (Michigan State University)
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East

The Marcellus Shale as a Gateway Drug to Energy Literacy
When new energy infrastructure is proposed, we wonder, “Is this bad for the environment?” If it’s large-scale energy production, the answer is often yes. This session is about engaging our audiences in deeper and more useful questions.
Presenter(s): Don Duggan-Haas (PRI & Its Museum of the Earth), Joseph Henderson (University of Rochester Warner School of Education), Kelly Cronin (Paleontological
Strand: Exhibit Hall East
Interest Areas: Exhibit Hall East
Research Institution), Robert Ross (Paleontological Research Institution)
Strand: 🏜️ Interest Areas: 🌿 🌿

**Exhibit Hall East**

**Plants and People: Gaining New Perspective Through Service Learning**
This presentation highlights the Plants and People Initiative of the Environmental Leadership Program at the University of Oregon. Undergraduate students worked with community partners to implement interdisciplinary, experiential, place-based environmental education focused on historical and contemporary uses of native plants.
Presenter(s): Devon Bonady (University of Oregon)
Strand: 🌿 Interest Areas: 🌿 🌿

**Exhibit Hall East**

**School/Farm Partnerships: Cultivating Best Practice**
This presentation examines how a place-based approach to farm/garden education encourages the creation of a “best practice” framework that capitalizes on the diverse backgrounds of students and educators, as well as the unique resources and partnerships available within a community.
Presenter(s): Ben Johnson (University of Wyoming)
Strand: 🌿 Interest Areas: 🌿 🌿

**Exhibit Hall East**

**Validity of Citizen Science to Evaluate Climate Change on Phenology**
This study provides a clear demonstration of the value of participatory research of citizen science where citizens monitor the effect of climate change on phenology and contribute in enhancing environmental education in local communities and research in climate change ecology.
Presenter(s): Hiromi Kobori (Environmental and Information Studies, Tokyo City University)
Strand: 🌿 Interest Areas: 🌿 🌿

**Exhibit Hall East**

**20-Minute Presentations**
4:15 PM–4:35 PM

**Burning Issues: Open Fires, Stoves, and EE in Latin America**
Learn how StoveTeam International has improved the lives of over 150,000 people in four years by addressing problems of poverty, environmental destruction, and health through innovative stove projects. Features lecture and discussion about EE’s role in addressing these issues in Latin America.
Presenter(s): Elly Seelye (StoveTeam International)
Strand: 🌿 Interest Areas: 🌿 🌿

**Room: 206**

**Oceanus and Ohio: Undergraduates “School” to Online Marine Science Class to Increase Their Ocean Literacy**
Undergraduates in a mid-sized, Midwestern and landlocked state of Ohio have kept an online marine science course marinating for over 15 years. The newly defined Ocean Literacy Standards have provided an opportunity to document the increased level of awareness of our world ocean students’ gain.
Presenter(s): Gwynne Rife (The University of Findlay)
Strand: 🌿 Interest Areas: 🌿 🌿

**Room: 204**

**Sustaining Teachers: The Connection Between Teaching Outdoors and Job Satisfaction**
Teachers in the Bioregional Outdoor Education Program in Monticello, UT work yearlong with an outdoor education mentor to build an amazing place into their teaching, with surprising impacts on job satisfaction and student engagement.
Presenter(s): Deanna Erickson (Lake Superior NERR)
Strand: 🌿 Interest Areas: 🌿 🌿

**Room: 208**

“We Don’t Want Any Sand or Sticks in Our Yard”
Work with childcare center staff to have them value and use a nature-rich play yard has revealed sociocultural differences between early childhood environmental education practices and child care practices. We will discuss the differences and efforts to bridge them.
Presenter(s): Mary Rivkin (University of Maryland Baltimore County), Karen Mullin (Willow Oak Group)
Strand: 🌿 Interest Areas: 🌿

**Room: 205**
Thursday 4:40 PM
The following sessions all start at 4:40 PM.

20-Minute Presentations
4:40 PM–5:00 PM

Effectiveness of Conservation Education Trainings for Forest Conservation in Nepal
In Nepal, stakeholders organize conservation education training regularly for the purposes of the adoption of bio-gas technology and forest conservation. Women who participated in training tried to use bio-gas properly in order to reduce the consumption of firewood.
Presenter(s): Manita Shrestha (Tokyo Gakugei University)

Empowering EE Leaders Through Project-Based Collaboration
We will share a project-based model, which cultivates new leaders and a cooperative decision-making environment. Learn how intention and organization helped our diverse team successfully face challenges of collaboration, project management, and group dynamics in developing a residential outdoor program.
Presenter(s): Katharine Bradley (Southern Oregon University), Libby VanWyhe (Southern Oregon University Environmental Education Masters Program), Jessica Collins (Southern Oregon University), Hannah Kolni (Southern Oregon University)

Teaching Conservation Through Action: Graduate Programming at Cleveland Metroparks Zoo
Graduate students enrolled in the Advanced Inquiry Master’s Degree Program at Cleveland Metroparks Zoo are learning about conservation through unique inquiry-driven programming and community-based action projects. This session highlights the program and the innovative ways AIP students are effecting change.
Presenter(s): Kathryn Corr

Thursday 5:15 PM
Special Session
5:15 PM–6:15 PM

Plenary Session

Cheryl Contee, Rue Mapp, Molly Tsongas
The Power of Social Media to Inspire and Engage
Cheryl Contee, Partner at Fission Strategy, specializes in helping non-profit organizations and foundations use social media to create social good. She is also the co-founder of Jack and Jill Politics writing as “Jill Tubman” on one of the top black blogs online.
Cheryl is included in The Root 100 list of established and emerging African-American leaders. Huffington Post listed her as one of the Top 27 Female Founders in Tech to Follow on Twitter in 2011, and Fast Company named her one of their 2010 Most Influential Women in Tech. Cheryl has appeared in the Washington Post, New York Times, San Francisco Magazine, BBC, and CNN, among other media appearances.

Rue Mapp is the founder of Outdoor Afro, a community that reconnects African-Americans with natural spaces and one another through recreational activities. Outdoor Afro uses Wisconsin's Teacher Educator Network for Environmental Education: Influencing Policy, Teaching, and Research
There is no need to work in isolation. Members of Wisconsin’s Teacher Educators Network for Environmental Education (TENFEE) will share group experiences of providing support to the state’s 32 teacher education universities through influencing policy, sharing teaching practices, and determining a research agenda for teacher education in the state.
Presenter(s): Rebecca Franzen (Northern Illinois University), Jennie Lane (Wisconsin K-12 Energy Education Program)
social media to create interest communities and events, and to partner with regional and national organizations that support diverse participation in the outdoors. The Outdoor Afro site is now an official partner of the American Camp Association (ACA) to support their national camp diversity initiatives.

In 2010, Rue participated in President Obama’s historical White House Conference on America’s Great Outdoors, and was later invited to take part in a White House think tank for Michelle Obama’s Let’s Move! campaign.

Molly Tsongas has a decade of experience within mission-driven organizations and companies leading communications, advertising, social media and advocacy campaigns. She recently joined Spitfire Strategies, a strategic communications firm for nonprofits and foundations, and previously served as an account manager and strategist at Citizen, a pro-social advertising and design firm. Molly has worked with clients such as World Wildlife Fund, Amnesty International, United Nations, Natural Resources Defense Council, USA Network, the Heinz Endowment, and Rock the Vote.

Exhibit Hall East

Thursday 6:15 PM

Meetings
6:15 PM–7:30 PM

NAAEE Diversity Steering Committee
Join us for the annual gathering of the Diversity Committee and meet members from across the country. Find out more about our strategy and efforts to broaden participation in NAAEE from diverse communities, ethnicities and cultural backgrounds. Join the committee if you haven’t already. All are welcome.
Chair: Flisa M. Stevenson
(Cornell Lab of Ornithology)
Room: 201

Professional Development and Teacher Education Special Interest Group
Come meet others interested in professional development and teacher education and learn what exciting things we are planning for the upcoming year. Then join us as we venture out to socialize and sightsee. Open to all.
Co-Chairs: Teresa Schretter Coker (Green Mountain College), Molina Walters (Arizona State University)
Room: 203

Thursday 7:00 PM

Meeting
7:00 PM–9:00 PM

Preservice Advisory Board Meeting
We will be discussing the work of the Preservice Advisory Board and welcome all who are interested in learning more about our on-going initiatives to increase EE in Educator Preparation Programs. Come learn about our work and how it can support you, your institution, and your preservice teachers.
Co-Chairs: Courtney Crim (Trinity University) and Elyce Rodewald (Stephen F. Austin State University)
Room: 204

Special Event
6:30 PM–8:30 PM

Sponsor Dinner
By invitation.
Meet at 10th Street Entrance
Friday Morning 8:00 AM

The following sessions all start at 8:00 AM. End times vary with the type of session.

Exhibit Fair
8:00 AM–7:00 PM

Exhibitors at NAAEE’s annual Exhibit Fair will help connect you to the latest and greatest in environmental education products and services. The exhibit hall will be open on both Friday and Saturday for you to explore innovative programs, dynamic practices, and effective products.

Strand: Exhibit Hall West

Hands-On Presentations
8:00 AM–9:00 AM

Action Group Learning Project: A Learning Strategy
This presentation shares strategies for helping learners undertake action-based projects with a focus on socioecological topics. In addition, participants will get a chance to learn more about action learning and how scaffolding can help support learners and build skills.

Presenter(s): Peta White (University of Regina)

Strand: Room: 208

Environmental Education with Young Children: Implementing Standards-Based Curricula
Participants engage in activities from Growing Up Wild and Early Childhood (EC) Project Learning Tree. Preschool/primary teachers facilitate discussion of the curricula’s effectiveness with support of video showing implementation with children. Relationship to national/state standards will be examined.

Presenter(s): Vicki Stayton (KAEE), Robin Hume, Kandy Fear (Bowling Green Independent School District)

Strand: Room: 204
Infuse Service Learning into Environmental Education for High Student Achievement
Learn to easily infuse service learning with your current environmental education curriculum and how this will increase your student achievement across all subject areas. Walk away with a concrete lesson you can implement immediately and effectively.
Presenter(s): Michelle Griffin (High Meadows School)
Strand: ☑️ Interest Areas: ☑️
Room: California

Student Citizen Scientists Support Real Research Projects
Long-term monitoring projects are easy to implement and engage youth in field science in a way that is fun and interactive. Participants will learn about exciting field research projects from wildlife tracking to balloon mapping and how to choose and organize their own projects.
Presenter(s): Tom Butler (NatureBridge), Kristen Emmett (NatureBridge), David Borden (NatureBridge)
Strand: ☑️ Interest Areas: ☑️
Junior Ballroom 1

Panel Presentation
8:00 AM–9:00 AM

Local Foods: Innovative Educational Initiatives
Learn about a variety of innovative approaches to sourcing and teaching about locally produced foods. Programs include indoor aquaponic systems in Pennsylvania, community initiatives in Ashland, Ohio, and using foods from local farms to feed visitors to Washington’s North Cascades National Park.
Presenter(s): Thomas Eatmon (Allegheny College), Samantha Laurence (Allegheny College), Louise Fleming (Ashland University), Katie Chipko (North Cascades Institute)
Strand: ☑️ Interest Areas: ☑️
Junior Ballroom 4

Film Presentation
8:00 AM–9:00 PM

Butterflies and Bulldozers
The fight to save San Francisco’s San Bruno Mountain speaks to the global dilemma of economic growth versus species preservation.
Presenter(s): Winnie Scherrer (Bullfrog Films)
Strand: ☑️ Interest Areas: ☑️
Room: Oakland

Roundtable Discussions
8:00 AM–9:00 AM

21st Century Youth in Ecological Education Programs
Trek School, an integrated outdoors school program in the Canadian prairies aimed at grade 11 students has had difficulties engaging students to register. While no doubt, the experience becomes transformational for students that do participate in the program, our question is how do we get them to sign up?
Presenter(s): Karen McIver (Saskatchewan Outdoor and Environmental Education Association)
Strand: ☑️ Interest Areas: ☑️
Grand Ballroom, Table 1

Animal Tracking—Meeting 21st Century Standards Through Innovative Environmental Education
Animal tracking is a powerful tool that engages the mind across multiple disciplines. This workshop provides techniques and exercises that capitalize on tracking as an innovative tool to meet 21st Century standards and an exciting means of connecting with nature.
Presenter(s): Keith Marshall (New Canaan Nature Center), Travis Brady (Greenburgh Nature Center)
Strand: ☑️ Interest Areas: ☑️
Grand Ballroom, Table 2

Beyond the Lens: The Realities of Making an EE Documentary
Videographer and editor Nathaniel Kramer will discuss his expertise in making documentaries—an iconic means of EE. Nathaniel will discuss his approach to communicating tone, information, perspective and empowerment through his most recent documentary, Greenland: Island of Change
Presenter(s): Nathaniel Kramer (Earth Initiatives)
Strand: ☑️ Interest Areas: ☑️
Grand Ballroom, Table 3
Building an Eco-Music Data Base for EE: Muse Action
EarthDayRadio.org, under umbrella of MUSE Association, has a comprehensive inventory of more than 5,000 eco-songs spanning six decades. Learn more about the next phase of the project to develop a searchable index coded by artist, year, genre, and topic and the process and volunteer needs for this educator resource. Presenter(s): Joyce Rouse (MUSE, Earth Mama, BRDC)

Strand: 🌿 Interest Areas: 🌿

Grand Ballroom, Table 4

Creating Powerful Partnerships to Increase Student Impact
Learn about how three non-profits in Northern Nevada; Sierra Nevada Journeys, The Nevada Discovery Museum and The Nature Conservancy, joined forces to create a unique and dynamic watershed science educational program for local elementary students. Presenter(s): Sean Hill (Sierra Nevada Journeys)

Strand: 🌿 Interest Areas: 🌿

Grand Ballroom, Table 8

California Delta Life—Water, Education and More!
The California Delta provides a rich mosaic of aquatic and terrestrial species with boundless educational opportunities. Participants will experience a “virtual” wastewater treatment plant tour, wetlands discovery activities, and engaging Project WET “Invaders!” activities relevant to Delta habitats—handouts provided. Presenter(s): Rhonda Beatty-Gallo (Project WET), Paul Belz (Lindsay Wildlife Museum)

Strand: 🌿 Interest Areas: 🌿

Grand Ballroom, Table 5

EE Literacy Assessment Development Among the EPA Region VII States—Iowa, Kansas, Missouri and Nebraska
Learn how the four states in EPA Region VII—Iowa, Kansas, Missouri, and Nebraska—have worked together to develop assessment tools to measure environmental literacy in their states. Presenter(s): Laura Downey (Kansas Association for Conservation and Environmental Education), Harry Heafer (Nebraska Alliance for Conservation & Environment Education), Rebecca Kauten (Iowa Conservation Education Coalition), Kathy Kropuenske (NACEE), Jan Weaver (Missouri Environmental Education Association)

Strand: 🌿 Interest Areas: 🌿

Grand Ballroom, Table 9

The Children and Nature Movement, a “Network of Networks”
This interactive session is a case study of a movement underway, connecting educators and leaders from diverse backgrounds to restore children’s relationship with nature and their communities through a network of partnerships engaged in new emerging ideas and collective action. Presenter(s): Mary Roscoe (Children in Nature Collaborative)

Strand: 🌿 Interest Areas: 🌿

Grand Ballroom, Table 6

The ELLMS Project: Residential EE and Collaborative Systems Change
Environmental Living & Learning for Maine Students (ELLMS) is a collaborative project of two EE nonprofits, two 4-H cooperative extension organizations and a national park that use residential EE center programs to teach and assess ecology, sustainability and systems education. Presenter(s): Drew Dumsch, (Ecology Education, Inc.)

Strand: 🌿 Interest Areas: 🌿

Grand Ballroom, Table 10

The Climate Literacy Network: Leveraging Efforts to Improve Conservation Education
This Network enables educators to learn from a diverse stakeholder community as they work to improve climate change and conservation education, and enable informed decision-making. Learn how you can leverage this community, make use of our resources and/or get involved. Presenter(s): Tamara Ledley (TERC), Frank Niepold (NOAA), Peggy Steffen (NOAA National Ocean Service)

Strand: 🌿 Interest Areas: 🌿

Grand Ballroom, Table 7

Empowering College Students and Youth Through Environmental Education Service Learning
This interactive presentation will review student and community experiences in a course that partners college students with urban elementary students to complete community environmental projects. Discussion will include student empowerment and connecting environmental
Energy Literacy for the Environment: Integrating Natural and Social Sciences
Learn about “Energy Literacy: Essential Principles and Fundamental Concepts for Energy Education” and how this framework supports environmental education. Emphasis will be placed on the integration of the natural and social sciences and on available resources to support energy literacy.
Presenter: DaNel Hogan (U.S. Department of Energy)
Strand: Interest Areas: Grand Ballroom, Table 12

Environment and Social Design: A Marriage of Aesthetics and Sustainability
The human species have lost a vital connection to the pulse of its own home. An educational curriculum that marries design and environmental studies shows how it can inspire new ideas that restore and nourish the earth and its people.
Presenter(s): Abigail Cabanilla (De La Salle-College of Saint Benilde, School of Design and Arts)
Strand: Interest Areas: Grand Ballroom, Table 13

Environmental Issues Instruction: Literature Use and NSTA’s Cross-Cutting Concepts
Join us in an engaging, hands-on session as we share lessons from our Environmental Issues Instruction program written in the 5 Es format that integrate quality children’s literature and the seven cross-cutting concepts of the NSTA’s K-12 Framework.
Presenter(s): Barbara Ehlers (Upper Iowa University), Carl Bollwinkel (Environmental Issues Instruction), Julie Delaney (St. Paul the Apostle School)
Strand: Interest Areas: Grand Ballroom, Table 14

Future Environmental Educators: Exploring Key Shifts in Elementary Teacher Preparation
Opening curricular pathways for future environmental educators is challenging in highly regulated teacher education. One approach embeds environmental inquiry throughout new and revised interdisciplinary courses featuring in-class study, out-of-class teamwork, and schoolyard food production with diverse students. Authentic problem solving contextualizes projects.
Presenter(s): Joan Armon (Regis University)
Strand: Interest Areas: Grand Ballroom, Table 18
Gardens for Training Teachers
The purpose of this roundtable is to spark discussion regarding training teachers in garden-based pedagogical practices as a means to integrate curriculum across subject areas, emphasize community-based instructional practices, and foster critical thinking and understanding of natural systems.
Presenter(s): Carie Green (Idaho State University), Ming Wei Koh (Hawaii Preparatory Academy), Molina Walters (Arizona State University)
Strand: Grand Ballroom, Table 19

The Importance of Connection and the Journey of Awareness
Humans are evolutionarily wired for connection with the natural world, a condition often forgotten amidst the din of modernity. Unconscious of this interrelationship, environmental degradation increases. Join us to discuss avenues for cultivating a personal and impactful connection with nature.
Presenter(s): Will Scott (Regenerative Design Institute and Prescott College)
Strand: Grand Ballroom, Table 20

Leveraging Partnerships and Modeling Best Practices to Support Environmental Education
Leveraging partnerships to encourage incorporating environmental education on a district-wide scale. Learn how CalEPA’s EEI curriculum helped bring together Annenberg Learner, National Geographic Education, Heal the Bay, and Google Earth to partner in creating a new teacher professional development model.
Presenter(s): Roni Jones (National Geographic Society)
Strand: Grand Ballroom, Table 21

Model Programs Connecting Youth with Wetlands and Inspiring Freshwater Stewardship
Santa Cruz Museum of Natural History partners with Watsonville Wetlands Watch to share two innovative approaches to freshwater outdoor education for K–12 students. Participants will engage in a hands-on aquatic invertebrate laboratory and gain access to lessons and training materials.
Strand: Grand Ballroom, Table 22

The Myth of the Sustainable Lifestyle
“Sustainability” is the Holy Grail of the 21st century. Everyone and his brother claim to have found it. But the best that we can say about sustainability is that it is a worthy goal, approachable, but not actually attainable.
Presenter(s): Mike Vandeman
Strand: Grand Ballroom, Table 23

Nature-Based Family Camps: Change Agent for Community Empowerment
Learn how nature-based family camps are demonstrating successful outcomes as a resiliency strategy for the prevention of violence and promotion of health, wellness, and environmental stewardship in low-income urban neighborhoods in Richmond, California.
Presenter(s): Eric Aaholm (Youth Enrichment Strategies)
Strand: Grand Ballroom, Table 24

Never Underestimate the Power of the Pigeon—Project Passenger Pigeon!
Project Passenger Pigeon’s aim is to use the 2014 centennial of the passenger pigeon’s extinction event as a segue into what works in the world of wildlife conservation. Join us to learn about resources, events and ways to get involved.
Presenter: Dan Marsh (Cincinnati Zoo)
Strand: Room: Grand Ballroom, Table 25

The PALS Grant Program: Using Partnerships to Improve Environmental Education
Learn about the partnership between the PSEG Foundation and the Alliance for New Jersey Environmental Education that has provided $90,000 in grants to promote partnerships between formal and nonformal EE providers. Examples of successful projects will be highlighted.
Presenter: Roberta Hunter (Acorn to Oak Environmental Education)
Strand: Grand Ballroom, Table 26

Paper or Plastic? Choices for a Greener, Safer World
Using a children’s book targeted at 5th grade, and an accompanying workbook, this session will present a methodology that encourages
informed, decision-making about environmental issues. Rational, fact-based discussions lead to critical thinking, not one-sided views perpetuated by proponents, opponents, the media and politicians.

Presenter(s): Bruce Wood (ePower Synergies, Inc.)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 27

Science for the 99: Education Methods for Non-Scientists
Not all undergraduates think like scientists, and we, as science educators, must accept this diversity of learning styles and adapt our methods to utilize learners’ strengths by initiating novel and radical teaching methods addressing non-science majors.

Presenter(s): Thomas Good (New England Institute of Art)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 28

Situated Learning: A Framework for Examining LEED Certified Schools
How can the Situated Learning theory be used as a framework for examining the learning spaces in green schools? Findings from interviews in one LEED certified school and implications for future research will be discussed.

Presenter(s): Hannah Miller (Michigan State University)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 29

Social Organizing Against Gas Drilling
Many of you face mobilizing your community to action. Here you will learn about how it was done in the context of fighting the gas industry. Leadership skills, communication, collaboration—all are needed. Handout provided.

Presenter(s): Betsy Leonard (CAEE)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 30

Teacher-Friendly Guides Designed to Complement Established Earth Science and Biology Curricula
Environments evolve in the interplay between life, earth, air and water. The Teacher-Friendly Guide series helps incorporate relevant examples, including regional geology and organisms like clams and corn, into established curricula. Explore the guides and best practices associated with them.

Presenter(s): Carlyn Buckler (Paleontological Research Institution and its Museum of the Earth), Don Duggan-Haas (PRI & its Museum of the Earth), Robert Ross (Paleontological Research Institution)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 31

Using Hands-on Lessons to Promote Good Global Citizenship
Rainforest Alliance created hands-on lessons to help students discover the wonders of rainforests and importance of sustainable forestry and agriculture in protecting global ecosystems. Students learn science, social studies, math and language arts, while developing a respect for the environment.

Presenter(s): Maria Ghiso (Rainforest Alliance), Lindsay Clark (Rainforest Alliance)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 32

A Volunteer Program Circus
Now more than ever, volunteers play a critical role in nonprofit and government agencies’ outreach and education efforts. However, managing a volunteer program can sometimes feel like being the ringmaster in a three-ring circus. Participants will learn how to make every performance a success.

Presenter(s): Jennifer Phillips (Bureau of Land Management)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 33

Weekly News Sharing Discussion Forum as a Tool to Enhance Undergraduate Students’ Environmental Literacy
This presentation will focus on the news discussion forum assignment in an undergraduate environmental science course for non-science majors. We will discuss the impact on the students, their reflections about this assignment, and patterns that emerged in the weekly exchanges.

Presenter(s): Mahsa Kazempour (Penn State Berks)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom, Table 34

What’s Burning in Your Campfire?
How do you convince people not to burn trash? Several state and federal agencies joined...
together to educate campers about the health and environmental hazards of campfire trash burning using posters, newsletter articles, and social media.
Presenter(s): Roberta Burnes (Kentucky Division for Air Quality)
Strand: Grand Ballroom, Table 35

**White Shark Stewardship Project**
Every fall Gulf of the Farallones National Marine Sanctuary hosts one of the largest concentrations of white sharks in the world. Learn about this fascinating apex predator, current research, and how citizens have joined forces to protect this amazing animal.
Presenter(s): Carol Preston (NOAA GFNMS)
Strand: Grand Ballroom, Table 36

**You Can’t Do It Alone: Making the Most of Partnerships**
Learn how networks and schools can maximize efforts and improve student learning through forming educational partnerships. Organizations such as NASA and 3M help students work with engineers, business owners, and other professionals in order engage students and provide real world applications for learning.
Presenter(s): Cheryl Schnell (Island City Research Academy)
Strand: Grand Ballroom, Table 37

**45-Minute Presentations**
8:00 AM–8:45 AM

**Healthy Habitats: An Environmental Service-Learning Project Model that Brings Stem Education to Class**
Healthy Habitats is a unique Texas environmental education program where students work with local and state partners to address priorities in the Texas Conservation Action Plan through service learning. The model integrates STEM education and state academic standards in local projects.
Presenter(s): Jana Harter (Healthy Habitats)
Strand: Room: 201

**Infusing EE into Academic Programs**
Come learn about innovative ways various universities are incorporating EE into their programs through service learning, campus sustainability efforts, university partnerships with nonformals, and student organizations and initiatives.
Presenter(s): Himanshu Gopalan (Winston-Salem State University), Blanche Desjean-Perrotta, Courtney Crim (Trinity University)
Interest Areas: Room: 205

**Ocean-Water Desalination: Educating About a Necessary Evil?**
Learn how a local Southern California water district is implementing a public education strategy on this controversial environmental resource topic through the design and construction of a 7,000 sq. ft. ocean-water desalination research plant and visitor education center.
Presenter(s): Darryl Ramos-Young (West Basin Municipal Water District)
Strand: Room: 210

**Planning for Certification Program Evaluation**
Learn program evaluation techniques and how evaluation can help direct improvements to your certification program.
Presenter(s): M. Fleming (Research, Evaluation & Development Services), Sarah Haines (Towson University)
Room: 210

**Promoting Sustainability Through Community Collaborations and Service Learning at Adams Elementary**
Adams Elementary School in Eugene, Oregon is committed to promoting sustainability. This interactive multi-media presentation will highlight lessons learned from three major initiatives addressing energy, landscaping, and transportation—focusing on the role of community collaborations and service learning.
Presenter(s): Devon Bonady (University of Oregon), Melanie Greenspan (University of Oregon Environmental Leadership Program)
Strand: Room: 205
Awareness and pursuit of natural resource careers. The session will include lessons learned, next steps and discussion.
Presenter(s): Scott Owen (U.S. Fish and Wildlife Service), Drew Burnett (U.S. Fish and Wildlife Service)
Strand: 🌿   Interest Areas: 🌿
Junior Ballroom 2 & 3

Students Lead Students to Water—School-Based Advocacy For Access To Drinking Water
Students lead peers to water, and get them to drink. This presentation explores tools used to advocate for clean drinking water in schools. Your youth partners will make a difference with these advocacy tools that promote healthy changes in school environments.
Presenter(s): Rusty Hopewell (Alameda County Public Health)
Strand: 🌿   Interest Areas: 🌿 🌿
Room: 202

20-Minute Presentations
8:00 AM–8:20 AM

Barriers to Hiring Young Adults in a Natural Resource Agency
Interviews with U.S. Fish & Wildlife Service (FWS) managers were used to assess barriers and supports to hiring young adults, including those in underrepresented groups, and to provide insight into how to improve FWS workplace receptivity to young adults.
Presenter(s): Kelly Balcarczyk (West Virginia University)
Strand: 🌿   Interest Areas: 🌿 🌿
Room: 206

Green Corps: Growing Youth, Growing Food, Growing Cleveland
Green Corps, a high school agriculture work/study program is now year-round including a winter program in environmental education and justice. A STEM (science, technology, engineering and math) track is being developed for the Cleveland Metropolitan School District. Students also can receive service learning and early college credit.
Presenter(s): Geri Unger (Cleveland Botanical Garden)
Strand: 🌿   Interest Areas: 🌿 🌿
Room: 207

Friday 8:25 AM
The following sessions all start at 8:25 AM.

20-Minute Presentations
8:25 AM–8:45 AM

Impact of Advanced Placement Environmental Science Exam on Students of Color
More than 80,000 students nationwide take the AP Environmental Science exam each year. Racial disparities in student performance have persisted since the test started in 1998. This talk will outline those disparities and suggest potential solutions.
Presenter(s): Max Weintraub (U.S. EPA)
Strand: 🌿   Interest Areas: 🌿 🌿
Room: 207

The River Environment To Connect Personal and Professional Development
Connect the personal and professional in your workshops. Use “A Sand County Almanac” to integrate STEM based watershed investigations, formative outdoor experiences, literature, writing, art and geography. Come ready to discuss, reflect and journal.
Presenter(s): Anne Lewis (Environmental Education Connections of South Dakota)
Strand: 🌿   Interest Areas: 🌿 🌿
Room: 206

Friday 9:15 AM

Keynote Presentation
9:15 AM–9:45 AM

Dr. Wesley Schultz
Education, Motivation, and Behavior: Lessons from Behavioral Science

Dr. Wesley Schultz, Professor of Psychology, California State University, San Marcos Wesley Schultz is Professor of Psychology at California State University, San Marcos. He is an internationally recognized expert in the areas of behavior and attitude change, conservation psychology, and social marketing and has published extensively in these areas. His most recent book is Social Marketing to Protect the Environment (Sage, 2012). Wesley’s work has been featured in the Wall Street Journal, New York Times, Time, BBC, and NPR, among many others.
Exhibit Hall East
Friday 10:00 AM

The following sessions all start at 10:00 AM. End times vary with the type of session.

**Symposium**
10:00 AM-11:45 AM

**Teaching Climate Change: Lessons Learned from EE and Next Steps**
Join us for short PechaKucha style vignettes of climate change education (CCE); lessons learned from two professional networks focused on climate literacy; and synthesizing discussions of how environmental educators can join networks and keep working towards achieving effective CCE.
Moderator(s): Karen Hollweg (Framework for Assessing Environmental Literacy)
Presenter(s): Kristen Poppleton (Will Steger Foundation), Emily Adler (Alliance for Climate Education), Mark McCaffrey (National Center for Science Education), Frank Niepold (NOAA), Heather Hochrein (Rising Sun Energy Center)
Strand: Interest Areas:
Junior Ballroom 2 & 3

**45-Minute Sessions**
10:00 AM-10:45 AM

**Certification 102: Learning from Experienced Programs**
Pick the brains of EE certification program leaders in small group sessions.
Presenter(s): Katie Navin (CAEE), Elizabeth Schmitz (Kentucky Environmental Education Council), Sarah Haines (Towson University), Jennifer Bucheit (The Conservancy for CVNP), Andree’ Walker Bravo (The Utah Society for Environmental Education), Jen Dennison (Ohio Division of Wildlife)
Strand: Room: 210

**Cultivating Emotional, Social, and Ecological Intelligence**
How can you inspire students about the most important ecological issues of today? The Center for Ecoliteracy, with renowned psychologist and author Daniel Goldman, has developed a new model of teaching and learning that integrates emotional, social, and ecological intelligence.
Presenter(s): Carolie Sly (Center for Ecoliteracy), Lisa Bennett (Center for Ecoliteracy)
Strand: Interest Areas:
Room: California

**Delivering Environmental Education and Life Skills Through Community Projects**
Using the example of community projects for schools in Cameroon, this presentation highlights the delicate balance between environmental awareness and survival by demonstrating how environmental education and life skills are woven into the curriculum through income generating initiatives.
Presenter(s): Edward Mzeka (UNICEF)
Strand: Junior Ballroom 4

**Ecological Handprints: Lifting Humanity While Lowering Our Footprint**
Are there successful ways to lift humanity out of poverty while also lowering our ecological footprint? Based on five years of field research, I will share my conclusions as well as the critical role of environmental education in achieving Ecological Handprints.
Presenter(s): Rocky Rohwedder (Sonoma State University)
Strand: Junior Ballroom 1

**Fishing for Answers with Sampling the Sea: Can Social Media Foster Ocean Literacy?**
In a pilot online ocean science curriculum for middle and high school students, researchers devised a unique multi-source evaluation model to assess social media use and its influence on learning outcomes.
Presenter(s): Julie Robinson (George Mason University), Elizabeth Youngman (TERC), George Matsumoto (MBARI)
Strand: Room: 201

**Forming Community Leaders and Weaving Stories in the Gulf of California**
Through long-term experiential educational curriculum and community dialog forums, the Environmental Education and Community Leadership Program promotes youth leadership and community participation in creating sustainable strategies for protecting priority species and habitats in the region of the Gulf of California.
Presenter(s): Marlu Robledo (Prescott College Kino Bay Center)
Strand: Room: 203
Green Schoolyards: Leading the Way to a 21st Century Education
For a decade, San Francisco Unified School District has dedicated $14 million to support green schoolyards, and is a leader in dynamic design and programming which serves 55,000 urban students. Come to an engaging presentation on this innovative education model.
Presenter(s): Rachel Pringle (San Francisco Green Schoolyard Alliance), Arden Bucklin-Sporer (San Francisco Green Schoolyard Alliance), Sharon Danks (Bay Tree Design, Inc.)
Strand: 🌿 Interest Areas: 🌿
Room: 204

Hydrating Humans: A Water and Energy Conservation-Learning Project
Need to raise awareness about the critical need to conserve both water and energy? Explore how energy is used to provide water to Californians. Guide students in taking action in the community with the goal of reducing dependency on natural resources.
Presenter(s): Alyssa Davis (The Energy Coalition)
Strand: 🌿 Interest Areas: 🌿
Room: 211

Socioecological Education Projects for Tribal Communities
Panel participants will discuss approaches and strategies for promoting socio-ecological education in indigenous communities, including efforts to mix Traditional Ecological Knowledge (TEK) with ecological research methods, based upon projects in the Western United States.
Moderator(s): Mary Adelzadeh (Foundation for Youth Investment)
Presenter(s): Jonathan Long (Pacific Southwest Research Station), Jared Aldern (Prescott College), Ron Goode (North Fork Mono Tribe)
Strand: 🌿 Interest Areas: 🌿
Room: 207

Sustainable Seafood: Making Smart Choices Through Science
Seafood and conservation: an underestimated power couple! This hands-on session uses the online seafood education tool, Fish Watch, to build data analysis, debate, and decision-making skills with students. All attendees receive resources with lessons, activities, and data sources.
Presenter(s): Molly Harrison (NOAA Fisheries Service)
Strand: 🌿 Interest Areas: 🌿
Room: 208

Using Computers to Get Kids Away from Their Computers
How can we use kids’ love of technology to connect them with their natural surroundings and nurture their sense of stewardship? See how the Environmental Volunteers used smart phone and touch screen technology to do just that!
Presenter(s): Brittany Sabol (Environmental Volunteers), Lori Mann (EE Consultant)
Strand: 🌿 Interest Areas: 🌿
Room: 202

Film Presentation
10:00 AM–10:45 AM
The Changing Sea
The Changing Sea decodes the signals that the ocean is sending us. Is the ocean’s chemistry being compromised by increased acidity, less oxygen and warming temperatures? Scientists around the world are in a race to understand these changes and what they’ll mean for thousands of species—including ours.
Presenter(s): Winnie Scherrer (Bullfrog Films)
Strand: 🌿 Interest Areas: 🌿
Room: Oakland

Poster Presentations
10:00 AM–10:45 AM
Urban Youth Connect to Wetlands Through Inquiry and Vertical Mentoring
The Wetland Stewards Afterschool Program connects urban youth to the freshwater system that surrounds us through hands-on, experiential, outdoor science that is culturally relevant. Our vertical mentoring approach fosters a personal connection to nature and a commitment to community.
Presenter(s): Noelle Antolin (Watsonville Wetlands Watch), Adrienne Frisbee (Watsonville Wetlands Watch)
Strand: 🌿 Interest Areas: 🌿
Exhibit Hall East
A New Face of Environmental Education for Kim-Men Low Carbon Island
Kim-Men Island is proposed to become a low carbon island. The environmental educators adopt a world cafe technique to collect local peoples’ thoughts and inspire their motivation to involve the vision. The authors put various efforts on localization of the energy saving and carbon reduction education.
Presenter(s): Shun-Mei Wang, Hung-Teng Chou (Graduate Institute of Environmental Education, NTNU)
Strand: Exhibit Hall East
Interest Areas: ⚜️ ⚜️

American and Chinese Urban Youths’ Value Orientations Toward Human-Nature Relationship
A cross-cultural study aims at exploring: What are American and Chinese urban youths’ value orientations toward human-nature relationship? What are potential differences and similarities that might be useful in future research regarding culture and value orientation toward human-nature relationship?
Presenter(s): Jie Li (University of Minnesota)
Strand: Exhibit Hall East
Interest Areas: ⚜️ ⚜️

Evaluating the Impact of Experiential Marine-Based Education Programs in Mexico
Student participants in the Ecology Project International (EPI) “Island Ecology Program” were found to have stronger beliefs in their ability to influence environmental change, including a statistically significant increase in their ability to have a positive impact on the world.
Presenter(s): Joshua Klaus (Ecology Project International)
Strand: Exhibit Hall East
Interest Areas: ⚜️ ⚜️

Green Star School Program—The Path to Innovation
Our program guides through the process in easy to follow do-it-yourself steps, for a school to obtain “Green Star School” award, and shows how to lead in environmental sustainability, while preparing the kids in the path to innovation.
Presenter(s): Pavan Gowda (Green Kids Now, Inc.)
Strand: Exhibit Hall East
Interest Areas: ⚜️

Land Art: A New Perspective in Environmental Education
This presentation is based on doctoral research that aims to define the role of art in environmental education. Moreover, this research, adopting a collaborative approach, characterizes and supports innovative pedagogies regarding the practice of Land Art in Environmental Education.
Presenter(s): Eva Auzou (UQAM)
Strand: Exhibit Hall East
Interest Areas: ⚜️ ⚜️

Local Food and Agriculture Practice Education in Ilan County
This paper shares lesson learned from 19 school farm and food education projects conducted at the Ilan County, Taiwan during the year 2010–2011. Logic Model was applied to examine the master plan of both school and county to analyze what can be changed in year 2012.
Presenter(s): Min-Hwang Liang (Department of Nature Resources and Environment, National Donghua University, Taiwan)
Strand: Exhibit Hall East
Interest Areas: ⚜️ ⚜️

NASA’s Immersive Earth: Earth Science Stories for Planetariums
NASA’s Immersive Earth Program tells Earth Science stories in a classroom and planetarium. Immersive Earth is a gateway for students to access visual representations of changes to Earth, using data to draw conclusions about factors that influence a changing world.
Presenter(s): Tassia Owen (Sigma Space)
Strand: Exhibit Hall East
Interest Areas: ⚜️

Stewardship: Where Environmental Education, Social Marketing and Invasive Species Collide
Harmful aquatic invasive species (AIIS) are considered one of the greatest challenges in conservation. One overlooked tool in the fight against aquatic invasive species, social marketing, provides a platform for stewardship projects. “Thinking product” and “thinking outreach” expands stewardship opportunities.
Presenter(s): Marte Kitson (Minnesota Sea Grant College Program)
Strand: Exhibit Hall East
Sustainable House Building as an Educational Experience
Sustainable houses use ecotechnologies, the most creative of which are windows and walls made of PET. The innovative, award-winning wall design is in the patent process. But beyond the technological success, constructing the walls was a meaningful educational experience.
Presenter(s): Blanca Gutiérrez Barba (Instituto Politécnico Nacional)
Strand: Exhibit Hall East
Interest Areas: 

The Week of the Birds: An Education Tool for Conservation
“The Week of the Birds” is an environmental curriculum that aims to increase awareness about bird conservation in the Neotropics. Its combination of classroom and fieldwork allows teachers to use it independently even in very basic rural school conditions.
Presenter(s): Natalia Sanz de Santamaria (SELVA: Research for Conservation in the Neotropics)
Strand: Exhibit Hall East
Interest Areas: 

20-Minute Presentations
10:00 AM–10:20 AM
As Easy As It Gets: Environmental Education Near the City
As the Brazilian population gets more urbane and older, we draw the attention to areas near the city, where people can go to experience a nature trail, a vegetable garden, and discuss issues such as biodiversity and organic agriculture.
Presenter(s): Flavia Thiemann (Federal University of Sao Carlos)
Strand: Junior Ballroom 4
Interest Areas: 

Friday 10:25 AM
The following sessions all start at 10:25 AM.
20-Minute Presentations
10:25 AM–10:45 AM
Double Teaming Dr. H.
Two very brave middle school students from Molokai “grill” educator, author, researcher, and photographer, Dr. Harold Hungerford, about conservation education and Investigating and Evaluating Environmental Issues and Actions, their school’s core curriculum. No topic is off-limits for this inquisitive duo!
Presenter(s): Harold Hungerford (CISDE)
Strand: Room: 206
Interest Areas: 

Tahoe Environmental Education Partnerships: Engaging Students with Hands-on Science Curriculum
We are a group of Tahoe agencies collaborating to bring standards based, hands-on science programs to thousands of students each year. We will share how we function as a coalition and the toolkit and activities used in the classroom.
Presenter(s): Sarah Ford (Tahoe Resource Conservation District), Kirk Hardie (Tahoe Institute for Natural Science)
Strand: Room: 205
Interest Areas: 

Friday 11:00 AM
The following sessions all start at 11:00 AM. End times vary with the type of session.
Hands-On Presentations
11:00 AM–12:00 PM
Billy B—The Natural Science Song and Dance Man
For 35 years, using original material from his nine CDs, Billy has engaged thousands of audiences in participatory song and dance shows about the wonders of our natural world. In this session he demonstrates and explores the successful techniques in reaching children with a message and holding their attention.
Presenter(s): Bill Brennan (Do Dreams Music)
Strand: Junior Ballroom 4
Interest Areas: 

Junior Ballroom 4
Building Resilient Food Systems With Urban Youth
Resilience is a buzzword being heard more and more as we confront the realities of climate change, economic instability, and peak oil. Learn about three organizations working in urban communities to build resilience through innovative food justice projects.

Presenter(s): Susan Silber (Green Schools Initiative), Doria Robinson (Urban Tilth)
Strand: Interest Areas: Room: 207

Creek Freaks: Multi-Disciplinary Outdoor Education Combines Structured with Unstructured and Digital Learning
Learn how to use Creek Freaks to combine structured and unstructured outdoor activities with digital technology for multi-disciplinary learning. Creek Freaks engages children ages 10-14 in exploring, monitoring, and protecting local streams. Children share photos, stories, and data online.

Presenter(s): Leah Miller (Izaak Walton League of America)
Strand: Interest Areas: Room: 208

Learning About Our Connection to Climate Through Games
Come play with new ways to teach about climate change and ecological literacy through a series of small-scale exhibit games. Our toolbox of interactive exhibits focuses on themes of balance, interconnections, and innovation. Program participants will receive free exhibit and prototyping information for educational use.

Presenter(s): Sylvia Scharf (New England Aquarium)
Strand: Interest Areas: Junior Ballroom 1

Film Presentation
11:00 AM-12:00 PM

RiverWebs: A Multi-Version Educational Film on River Ecology and Conservation
RiverWebs is an award-winning educational film that explores the nature of river food webs, and the lives of real-life scientists who explore them. Originally broadcast on PBS, RiverWebs is now available in four versatile educational versions with accompanying curriculum and field-learning resources.

Presenter(s): Jeremy Monroe
Strand: Interest Areas: Room: Oakland

Roundtable Discussions
11:00 AM-12:00 PM

Building School Gardens: A Recipe for Success
What are the key ingredients for creating and sustaining school gardens? E2 Evaluation’s analysis of Openlands’ Building School Gardens program in 40 Chicago Public Schools identified their “recipes for success.” Learn about the program, the evaluation, and receive evaluation tools.

Presenter(s): Catherine Game (E2 Evaluation), John Cawood (E2 Evaluation), Jaime Zaplatosch (Openlands)
Strand: Interest Areas: Grand Ballroom, Table 1

Cabin Leader Forum
This is a forum for Cabin Leader Coordinators and Principals to get together and discuss ways of improving our high school cabin leader programs. We can share ideas on recruitment, training, and challenges that we have. Please be prepared to share ideas!

Presenter(s): Kathleen Utter (San Mateo Outdoor Education)
Strand: Grand Ballroom, Table 2

Climate Change from the Inside Out: Pondering Inner Awareness
Scharmer (2009) refers to a lack of inner awareness as a blind spot for many of today’s change makers. Following a short meditation, participants share ideas about what it means to explore the inner world, to discover the “blind spot.”

Presenter(s): Kim Wallace
Strand: Interest Areas: Grand Ballroom, Table 3
Climate Change Lessons for the Great Lakes
No polar bears or rising seas, but plenty of climate change impacts are likely to occur on the North Coast of the U.S. Ohio Sea Grant has new curriculum materials deliverable online. Visit the roundtable for examples and access information.
Presenter(s): Rosanne Fortner (COSEE Great Lakes)
Strand: Interest Areas: Grand Ballroom, Table 4

Collaboration Through Multiple Lenses Creates Kaleidoscopic and Effective Professional Development
Pick a Perspective! Come engage directors of the Museum Institute for Teaching Science in conversation about effective professional development for educators. Look through multiple lenses including the program’s administrative and program supporters, the planners, implementers from partner organizations, and participants.
Presenter(s): Jane Heinze-Fry (Museum Institute for Teaching Science), Sandra Ryack-Bell (Museum Institute for Teaching Science)
Strand: Interest Areas: Grand Ballroom, Table 5

Collaborative Formative Evaluation: Validated Steps in Improving the Environmental Education Program
Learn about a collaborative approach in formative evaluation to improve your environmental education curriculum or program! Four field-tested steps will be presented and participants will be engaged in discussing a wide range of strategies. Learn about a free formative evaluation toolkit, too!
Presenter(s): Yash Bhagwanji (Florida Atlantic University)
Strand: Interest Areas: Grand Ballroom, Table 6

Cross-Cultural Green Themes: Promoting Environmental Education Within Diverse Communities
The environment knows no borders and neither should environmental education. Developing culturally sensitive materials that effectively engage your audience can be challenging in global communities. Whether in Dubai or Chicago, this presentation outlines best practices when addressing diverse audiences.
Presenter(s): Lindsey Ludwig (GrowingGreat)
Strand: Interest Areas: Grand Ballroom, Table 7

Ecoliteracy in the City: Emerging Initiatives and Collaboratives in San Francisco
How do we create an eco-literate city? San Francisco has been the stage of a variety of community-based conservation and place-based learning initiatives. There is still much work to be done but notable achievements offer compelling ideas for other urban areas. This presentation will highlight partnership-based urban EE programming.
Presenter(s): Damien Raffa
Strand: Interest Areas: Grand Ballroom, Table 8

EE Is Everywhere: Reclaiming the Urban Landscape Through Open Streets
A new context for EE is sprouting in our cities, and it’s celebrating the transformation of a different environment: the City Street. Learn how Open Streets events around the world are empowering communities and engaging new audiences with the outdoors.
Presenter(s): Jessica Parsons (Emerald Necklace Conservancy)
Strand: Grand Ballroom, Table 9

Energy in Every EE Program
Energy is a core cause of environmental problems, but is rarely a focus of EE programs. This presentation will show participants how energy efficiency can be an engaging and exciting part of every environmental education program, by using the building associated with the program as a learning lab.
Presenter(s): Jennifer Alldredge (Alliance to Save Energy)
Strand: Interest Areas: Grand Ballroom, Table 10
Environment-Based Strategies for Mastering Academic Content Standards
Learn how California’s Education and Environment Initiative (EEI) and the State Education and Environment Roundtable's “EIC Model.” demonstrate that environment-based education can be used to effectively teach the Common Core State Standards.
Presenter(s): Christy Porter Humpert (California Environmental Protection Agency, Office of Education and the Environment)
Strand: Interest Areas: Grand Ballroom, Table 11

Environmental Justice and Sustainable Communities PechaKucha Style Showcase
The PechaKucha 20x20 is a way to share innovation and ideas in a simple presentation format where 20 images are shown for 20 seconds each. This fast-paced presentation will feature projects and ideas working towards environmental justice and sustainable communities.
Presenter(s): Joey Zocher (Escuela Verde)
Strand: Interest Areas: Grand Ballroom, Table 12

Environmental Literacy and Your Green School: Guidelines for Excellence
Are you looking for a resource to help you develop curriculum and instruction at your Green School? Look no further. Come hear how Excellence in Environmental Education: Guidelines for Learning (K-12) provides a comprehensive, standards-based framework for environmental literacy.
Presenter(s): Bora Simmons (National Project for Excellence in Environmental Education)
Strand: Interest Areas: Grand Ballroom, Table 13

Environmental Project Based Learning—Relevant Learning for The 21st Century
Connect students to the environment through project-based learning that engages and empowers them as 21st century citizens. This hands-on session demonstrates the methodology, provides real-world examples, and shows how it aligns with conservation goals and the Next Generation Science Standards.
Presenter(s): Erica Baker (Pacific Education Institute), Jennifer Tabola (National Environmental Education Foundation)
Strand: Interest Areas: Grand Ballroom, Table 14

Favorite Interactive EE Activities for Preservice and Inservice Teachers
Come experience for yourself some of our favorite, already proven successful, preservice/inservice environmental education activities and leave with what you need to recreate these yourself.
Presenter(s): Molina Walters (Arizona State University), Teresa Coker (Green Mountain College)
Strand: Interest Areas: Grand Ballroom, Table 15

Food for People, Not for Profit
Do you believe that access to healthy food is a basic human right? Why or why not? Do you think food is a basic human right in the United States? Do you see a connection between: the environment, climate change, justice, the economy, and food?
Presenter(s): Y. Armando Nieto (CA Food and Justice Coalition), Christina Spach (CA Food and Justice Coalition)
Strand: Interest Areas: Grand Ballroom, Table 16

Generating Community Environmental Change Through Unique Educational Approaches and Partnerships
Explore how local resources and partnerships can be utilized to enhance classroom learning and significantly impact the community. Learn from the teacher about real and diverse examples involving K-16 students that have led to community change, politically, ecologically, and culturally.
Presenter(s): Gary Swick (Friends of the Fox River)
Strand: Interest Areas: Grand Ballroom, Table 17
Community Garden Connections offers graduate students opportunities to make learning relevant, connect with the greater community, and foster connection to place, while addressing issues of food security, health, and resilience in the face of climate change. Students will share their stories, conundrums and insights about their community-based EE food justice efforts.

Presenter(s): Allan Pearce (Antioch University New England), Elizabeth (Libby) McCann (Antioch University New England), Tania Schusler (Loyola University Chicago)

Strand: Grand Ballroom, Table 18
Interest Areas: 🌿 🌿 🌿

How to Read Your Audience’s Mind—Surveys of Environmental Educators and Teachers in Alberta

Who are they? What do they want? What are the barriers to their work? Do they like us? We’ll tell the story of our annual surveys of environmental educators and teachers in Alberta, which attempt to answer these questions and others.

Presenter(s): Christina Pickles (Alberta Council for Environmental Education), Gareth Thomson (Alberta Council for Environmental Education)

Strand: Grand Ballroom, Table 19
Interest Areas: 🌿 🌿 🌿

Innovative Approaches To Evaluation in Informal Settings

In this roundtable, participants will hear about creative approaches to evaluation that the organizers have developed in residential and non-residential settings. Participants will also get to share their own fun and effective evaluation techniques.

Presenter(s): Kathayoon Khalil (Stanford University), Kathleen O’Connor (Stanford University)

Strand: Grand Ballroom, Table 20
Interest Areas: 🌿 🌿 🌿

Inspiring Youth to Pursue Careers in Conservation

U.S. Fish and Wildlife Service’s National Conservation Training Center (NCTC) created career awareness kits for use at employment events. Discover how these kits containing several activities can be used to encourage youth and young adults to consider natural resource careers.

Presenter(s): Michelle Donlan (U.S. Fish and Wildlife Service), Mary Danno (U.S. Fish and Wildlife Service)

Strand: Grand Ballroom, Table 21
Interest Areas: 🌿 🌿 🌿
Not in Isolation: Environmental Education Inspired in Family and Community
We’ll present highlights from a study about what has inspired low-income families of color (in Oakland, California) to take environmental actions and about their deep appreciation for the interdependence of the wellbeing of people and environment. Please join the discussion.
Presenter(s): Suzanne Pegas (Oakland Museum of California), Amiko Mayeno (Oakland Museum of California)
Strand:  
Interest Areas:  
Grand Ballroom, Table 25

Nurturing the Next Generation of Environmental Leaders: The Nature Conservancy’s LEAF Program
The Nature Conservancy’s LEAF Program works in partnership with environmental high schools in cities around the country to combine urban environmental education with real-world conservation work experience for urban youth on nature preserves across the country.
Presenter(s): Brigitte Griswold (The Nature Conservancy), Rue Mapp (Outdoor Afro), Dan Strauss (The Nature Conservancy)
Strand:  
Interest Areas:  
Grand Ballroom, Table 26

The Oregon Environmental Literacy Plan: From Inception to Implementation
Oregon was the third state in the nation to have a completed ELP. Learn how innovative approaches to our stumbling blocks are helping us establish state infrastructure and stable, coordinated funding to cultivate ecological problem solvers and informed, responsible stewards.
Presenter(s): Traci Price (The Oregon Community Foundation), Lara Christensen (The Oregon Community Foundation)
Strand:  
Interest Areas:  
Grand Ballroom, Table 27

Principles Defining a Working Vision for Sustainable Living
To create the change to sustainable living, we need to understand some simple principles that make the choices appealing. Most people currently are unaware of the forces controlling their decisions for living. These sustainability principles are appealing and outlined here.
Presenter(s): Richard Jurin (University of Northern Colorado)
Strand:  
Interest Areas:  
Grand Ballroom, Table 28

Risk Assessments for Policies on Sustainable Living Practices and Toxins
Receive selected pages from Project Learning Tree’s “Focus on Risk” module—activities used by secondary-school teachers to understand and to do risk assessments that inform policies on exposure to toxins and selecting sustainable living practices.
Presenter(s): David Stronck (California State University, East Bay)
Strand:  
Interest Areas:  
Grand Ballroom, Table 29

Soil to Spoon
Where does that food on your spoon come from? Engage in activities and materials to help students and communities understand the connection of their food from soil to their spoon. Ideas and tools will be shared on outreach.
Presenter(s): Susan Schultz (National Association of Conservation Districts)
Strand:  
Interest Areas:  
Grand Ballroom, Table 30

State Legislation and Gubernatorial Executive Orders: Supporting EE & ELPS
Since the introduction of the NCLI Act, several states have passed state legislation and secured Gubernatorial Executive Orders to support environmental education and Environmental Literacy Plans. Learn from different states how legislative actions are helping to connect children with nature.
Presenter(s): Traci Price (The Oregon Community Foundation), Jesse Haney (Wisconsin Environmental Education Foundation), Katie Navin (CAEE), Laura Downey (Kansas Association for Conservation and Environmental Education), Sarah Bodor (Chesapeake Bay Foundation), Allen Cooper (National Wildlife Federation)
Strand:  
Grand Ballroom, Table 31

STEM Meets STSE: What Do Tower Builders Value?
Explore how STSE and STEM can impact science teaching: build the tower! This workshop will involve participants in a group construction project and ensuing discussion on embedding socio-environmental elements in science and technology curriculum.
Presenter(s): Astrid Steele (Nipissing University)
Strand:  
Interest Areas:  
Grand Ballroom, Table 32
Students Make a Difference in Lake Tahoe Children’s Forest
Fifth grade students are discovering the importance of restoring habitat for native species. Working closely with creative teachers, and with student help, the Forest Service is accomplishing removal of aquatic invasive species on several acres of wetlands.
Presenter(s): Joy Barney (U.S. Forest Service)
Strand: Interest Areas: Grand Ballroom, Table 33

Teaching About Climate Change Through Creative Writing
During this workshop we will do some creative writing activities that can help students examine their own beliefs about possible effects and solutions related to climate change and to think about how it will affect their own community.
Presenter(s): Jacob Sackin (Exploring New Horizons at Sempervirens)
Strand: Interest Areas: Grand Ballroom, Table 34

Urban Heat Island: Linking Science and Society
Explore the Urban Heat Island phenomenon with your students. Learn to investigate the ecological causes and consequences for plants, animals and people. Then, help students understand potential solutions using a participatory, auto-ethnographic technique called Photovoice.
Presenter(s): Monica Elser, Gina Hupton (ASU GIOS)
Strand: Interest Areas: Grand Ballroom, Table 35

Using Animals That Slither, Slide, Run, and Hide for Education
Learn how to use snakes, salamander, turtles, and frogs for conservation education. Experience and discover activities that engage students in authentic science while also teaching conservation. Leave the workshop armed with resources that can easily be implemented in K-12 classrooms.
Presenter(s): Lacey Huffling (University of North Carolina—Greensboro), Aerin Benavides (UNCG)
Strand: Interest Areas: Grand Ballroom, Table 36

Using the Earth Smarts Framework to Improve Your EE Program
This session will engage participants in ways the freely available Earth Smarts educational framework can improve the effectiveness of their EE programs. Its transdisciplinary components can help make activities, curricular materials, and collaboration with schools more focused and effective.
Presenter(s): Bryan Nichols (University of South Florida)
Strand: Interest Areas: Grand Ballroom, Table 37

Using NAAEE Guidelines to Design Curricula for Social Justice
Hands-on exploration of a project to create bilingual air quality curriculum drawing from social, economic, bi-cultural and political context of El Paso, Texas, and reaching 50,000 children per year. Participate in the development of an evaluation rubric for NAAEE-based curricula
Presenter(s): Elaine Hampton (University of Texas El Paso)
Strand: Interest Areas: Grand Ballroom, Table 38

Water, Science, and Civics: Youth Digital Storytelling About Stormwater and Ecosystem Services
Puget Sound, San Francisco, Chesapeake, and Galveston Bay—iconic bodies of water beyond valuation. Explore a hands-on curriculum that has successfully used Puget Sound as an integrating context for science and social studies through digital storytelling and service learning.
Presenter(s): Danica Hendrickson (Facing the Future), Dave Wilton (Facing the Future)
Strand: Interest Areas: Grand Ballroom, Table 39
Climate Toolkits for Informal and Formal Educators
Learn more about the climate resources contained in two toolkits, “Wildlife and Wildlands” and “Teaching Climate” produced by cooperating federal science agencies. Presentations, activities, national reports, and visualizations provide educators with tools to teach climate science and promote stewardship activities.
Presenter(s): Peggy Steffen (NOAA National Ocean Service), Bruce Moravchik (NOAA National Ocean Service), Vicki Arthur (U.S. Forest Service)
Strand: Interest Areas: 🌿
Room: 203

Getting in the Game: “Green” Sports and Environmental Education
The EPA is teaming up with sports organizations to turn fan engagement into fan education. In this interactive session, we want your help designing EE initiatives and activities for fans. Help us educate and create millions of environmental stewards!
Presenter(s): Dale Perry (U.S. Environmental Protection Agency), Jennifer Bowman (U.S. Environmental Protection Agency)
Strand: 🐙
Room: California

How to Get Your Local EE Certification Program Accredited By NAAEE
Interested in having your EE certification program accredited by NAAEE, but wonder how? Come to this session for a copy of the application for NAAEE’s accreditation process and discussion of the details.
Presenter(s): Tom Marcinkowski (Florida Institute of Technology), Sarah Haines (Towson University)
Room: 210

Implementation of Youth Leadership Models for Teaching Wetland Restoration
Recognizing that students oftentimes make the best teachers, Save The Bay has created multiple-session programs that train student mentors in leadership and field science. This presentation covers curriculum elements developed and vetted during the first two years of our stewardship training programs.
Presenter(s): Seth Chanin (Save The Bay)
Strand: Interest Areas: 🌿
Room: 211

Lessons from the Inside: A Case Study in Strategic Plan Implementation
Eighty percent of strategic plans never come to life and instead waste away, collecting dust on the shelf. Want your organization to thrive? Come learn from the challenges and successes of NatureBridge, a leader in residential environmental education.
Presenter(s): Estrella Risinger (NatureBridge)
Strand: 🌿
Room: 202

Branding Basics: Creating a Unique Identity for Your EE Organization
As an environmental education organization, it can be difficult to stand out from similar programs. Learn how the University of Wisconsin-Stevens Point developed a branding strategy for its environmental education degree programs and learn the branding basics for your organization.
Presenter(s): Katie Boseo (University of Wisconsin-Stevens Point)
Strand: 🌿
Room: 212

Engineering and Aquatic Environments: Using Underwater ROV’s for Environmental Education
Student teams explore freshwater and marine environments using SeaPerch Underwater Remotely Operated Vehicles. After building a basic SeaPerch, students may attach various sensors, probes, cameras, and water sampling devices to gain an understanding of various aquatic ecosystems.
Presenter(s): Adrienne Marriott (San Diego Science Alliance)
Strand: Interest Areas: 🌿
Room: 205
Improving Educator and Agency Partnerships: Guidelines from Wildfire Education Programs for Youth

Using examples from seven youth wildfire education cases, this session will provide useful guidelines that can strengthen and enhance any agency and educator partnership.

Presenter(s): Martha Monroe (University of Florida), Heidi Ballard (School of Education, University of California)

Room: 204

Sinaloa’s Environmental Educators Network

This session will present the results of a project funded by FWS, which formed a network of citizens committed to conservation in Mexico, and which works as an information network for mutual support, capacity building, community training, and dissemination of strategies for solving environmental problems.

Presenter(s): Eunice Murua (Centro de Investigación en Alimentación y Desarrollo)

Room: 206

Friday 11:25 AM

The following sessions all start at 11:25 AM.

20-Minute Presentations

11:25 AM–11:45 AM

BeeSmart™ School Garden Kit: Connecting Pollinators, Plants, and People

During this session, the Pollinator Partnership (P2) will present the BeeSmart™ School Garden Kit, a hands-on curriculum based tool that guides students through discovering the importance of pollinators and how they are connected to food, environment, and health.

Presenter(s): Mary Rager (Pollinator Partnership), Jennifer Tsang (Pollinator Partnership)

Strand: 🌸 Interest Areas: 🌱 🌿

Room: 206

Observe, Participate, Reflect: A Facilitation Model Based in Leopold’s Land Ethic

The Land Ethic Leaders program helps individuals engage their communities in conversation about Aldo Leopold’s core idea of a “land ethic,” a moral responsibility of humans to the natural world.

This presentation will detail the program’s impacts on youth age 16-21 and adult professionals.

Presenter(s): Jennifer Kobylecky (Aldo Leopold Foundation)

Room: 212

Using Innovative Partnerships to Share Scientific Research with the Public

Small science organizations struggle to disseminate conservation research to the public. Learn about our partnership with a museum that allowed us to share our lagoon study with a broad audience and offered a locally relevant EE experience to the community.

Presenter(s): Sierra Ryan (Central Coast Wetlands Group)

Room: 204

Friday 12:00 PM

Exhibit Fair Grand Opening

12:00 PM–2:00 PM

Celebrate the opening of the 2012 exhibit fair in grand style with a buffet lunch, the Authors’ Corner, the Affiliates Welcome and dessert bar. Be sure to put in a bid on the silent auction items you covet, and, of course, chat with exhibitors and get your first look at the latest and greatest in environmental education products and services.

Exhibit Hall West

Affiliate Welcome

This is your chance to meet and greet the Affiliate organization members of NAAEE, and the folks from your home state or province. As you visit each Affiliate display, enjoy tasty tidbits from around North America. Come share in the fun!

Authors’ Corner

The Authors’ Corner features NAAEE members and other writers who will be available to discuss and autograph their newest publications. Learn what inspired 12-year old Pavin Gowda to publish his first book, and find out what’s recently caught the interest of President Elect Michael Marzolla. You can purchase books through the conference bookstore, run by Acorn Naturalists, and have them signed by the authors.
Friday 2:00 PM

All of the following sessions start at 2:00 PM. End times vary with the type of session.

**Symposia**
2:00 PM–3:45 PM

**Developing Assessments for Gauging the Environmental Literacy of Graduating Seniors**
Join researchers, evaluators, affiliate leaders and others in using the Framework for Assessing Environmental Literacy to explore options for using performance assessments to measure Environmental Literacy Plan outcomes. Discuss possibilities for a collaborative effort among assessment experts and affiliates.
Presenter(s): Karen Hollweg (Framework for Assessing Environmental Literacy), Katie Navin (CAEE), Laura Downey (Kansas Association for Conservation and Environmental Education)
Strand: 🌍 Interest Areas: 🌍 🧑‍🏫
Room: 204

**Embedding Environmental Education in Our Schools and Communities**
College faculty members hold the future of environmental education in their hands, helping future formal and nonformal educators develop expertise in the interdisciplinary techniques our profession requires and connecting budding educators with local environmental professionals. Learn from higher education exemplars.
Moderator(s): Kevin Peters (Morgan State University)
Presenter(s): Lasisi Ajayi (San Diego State University-Imperial Valley), Manisha Javeri (California State University, Los Angeles), Carol Johnston (Mount St. Mary’s College, Los Angeles), Catherine Martin-Dunlop (Morgan State University), Irene Osisioma (California State University Dominguez Hills), Bryan Wee (University of Colorado Denver)
Strand: 🌍 Interest Areas: 🌍 🧑‍🏫
Junior Ballroom 2 & 3

**What's the Learning in Learning Gardens? Direct and Indirect Outcomes**
This symposium includes case studies of learning gardens in K-12 and higher education in Portland, Kohala, and Vancouver, B.C. contextualized within a body of research. Participants will be engaged via data/slides of students’ active learning across partnerships, cultures, and organizations.
Moderator(s): Dilafruz Williams (Portland State University)
Presenter(s): Ming Wei Koh (Hawaii Preparatory Academy), Jolie Mayer-Smith (University of British Columbia), Susan Gerofsky (University of British Columbia)
Strand: 🌍 Interest Areas: 🌍 🧑‍🏫
Room: Oakland

**Film Presentation**
2:00 PM–3:15 PM

**Play Again**
What are the consequences of a childhood removed from nature? www.PlayAgainFilm.com
Presenter(s): Meg Merrill (Ground Productions)
Strand: 🌍 Interest Areas: 🌍 🧑‍🏫
Room: Oakland

**45-Minute Sessions**
2:00 PM–2:45 PM

**Bay Area Green Star Schools Program**
The Green Star Schools program recognizes and supports classrooms, schools, and districts for advancements in environmental education. The program provides web-based calculators and a project-based-instruction curriculum that together enable teachers and students to make significant contributions to their school’s sustainability and share their results online.
Presenter(s): Mark Spencer (StopWaste.org), Nate Ivy (Alameda County Office of Education)
Strand: 🌍 Interest Areas: 🌍 🧑‍🏫
Room: 201
California Outdoor School Association (COSA)
Residential Outdoor Science Schools
Please join a panel of COSA outdoor science school directors in discussing current trends in environmental education, legislation, California’s Education and the Environment Initiative, and COSA’s Residential Outdoor Science School (ROSS) certification process.
Presenter(s): Mark Nolan (San Mateo Outdoor Education)
Strand: 🌿 Interest Areas: 🌿
Room: California

EECapacity State Consortia: Capacity Building Through Collaboration and Networking
Learn about this opportunity to build capacity in your state by connecting a new cadre of urban and diverse EE professionals with established environmental educators. Each year we select five states to receive funding through this initiative.
Presenter(s): Jose Marcos-Iga (Environmental Education Exchange)
Strand: 🌿 Interest Areas: 🌿
Room: 203

Enhancing Forest Field Study with PLT
Learn to teach about the significance of global forests (and the trees in your own backyard!) using two new Project Learning Tree resources. Participants will explore this vital component of the Earth’s natural systems and receive PLT curriculum materials.
Presenter(s): Jackie Stallard (Project Learning Tree), Al Stenstrup (American Forest Foundation), Kathy McGlaflin
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom C

Enhancing Visitation Options in a Marine Science Facility
Want to increase visitation options to your facility? Find out how to provide numerous educational options to visitors ranging from guided and audio tours to visitor guides based on their interest and time available.
Presenter(s): Adam Ratner (The Marine Mammal Center)
Strand: 🌿 Interest Areas: 🌿
Room: 206

Fairfax County PS District Wide Get2Green Program
Fairfax County, Virginia, the 12th largest school district in the country, is implementing a program, Get2Green, to encourage Green Schools across the district. They have partnered with the National Wildlife Federation Eco Schools USA program for student service learning and action projects.
Presenter(s): Elaine Tholen (Fairfax County Public Schools, VA)
Strand: 🌿 Interest Areas: 🌿
Room: 211

Global Systems Science
Global Systems Science (GSS) provides curriculum materials for grades 9-12 focusing on science-related societal issues. Twelve books, software, and teacher guides support a 1-year integrated science course or supplement existing biology, physics, chemistry, Earth or environmental science courses.
Presenter(s): Alan Gould (Lawrence Hall of Science, University of California, Berkeley)
Strand: 🌿 Interest Areas: 🌿
Room: 202

How to Use the Next Generation Science Standards for EE
Most states will adopt new Next Generation Science Standards—learn to use them in Environmental Education. Participants will learn how these standards differ from current practice, to navigate their public draft, and how new science standards fit into environmental education.
Presenter(s): Matt Hinckley (Longfellow Middle School)
Strand: 🌿 Interest Areas: 🌿
Room: 208

Marine Ecology, Human Impacts, and Conservation: Resources from National Geographic
National Geographic has a free, online Marine Ecology, Human Impacts, and Conservation unit. You’ll learn how to use this unit to share the magic of the ocean and the world of NatGeo’s maps, media and explorers with your audiences.
Presenter(s): Julie Brown, Joe Super (NGE)
Strand: 🌿 Interest Areas: 🌿
Room: 208
A Model for Success: The DC Healthy Schools Act
The Act represents one of the most transformative and progressive pieces of healthy schools legislation ever passed by a municipality. Come learn more about this incredible piece of legislation and how you can replicate it in your community.
Presenter(s): Sean Miller (Earth Day Network)
Strand: Interest Areas: Junior Ballroom 1

Our Watery Fingerprints: Teaching About Human Impacts on the Ocean
Our world population of 7 billion and growing has affected our ocean ecosystems. In this hands-on/minds-on workshop, engage in activities to explore global population trends and human interactions with our blue planet over the past 500 years. Receive activity scripts and background reading on CD-ROM.
Presenter(s): Lynda Deschambault (Population Connection)
Strand: Interest Areas: Grand Ballroom G

The Power of Storytelling: Engaging Students Through Multimedia
This engaging multimedia presentation discusses how storytelling and film can connect students to global sustainability and local action. Learn from successful examples of students and schools getting involved in sustainability and walk away with free resources for your classroom.
Presenter(s): Tara McCarthy (Green Living Project), Mark Ardagna (Green Living Project)
Strand: Interest Areas: Room: 210

Teaching Environmental Literacy Within a Rural Community: Program Design and Evaluation Explored
How does an environmental literacy program need to be different for students from rural communities? Join us for a discussion of “lessons learned” from this case study based in Steamboat Springs. Yampatika will share its environmental literacy model, evaluation methods, and discuss best practices for its replication.
Presenter(s): Sonja Macys (Yampatika), Christina Stark
Strand: Interest Areas: Grand Ballroom B

Poster Presentations
2:00 PM-2:45 PM

Analysis of Curriculum and Teaching Material for Biodiversity Value Education in Elementary School, Korea
This study focused on suggested biodiversity value education in elementary schools, in view of the importance of awareness of the value of biodiversity as the core content of biodiversity education. The teaching materials are intended to help elementary school students understand the value of biodiversity.
Presenter(s): Kee Dae Kim (Korea National University of Education)
Strand: Interest Areas: Exhibit Hall East

How Does Environmental Education in Childhood Influence Majoring in Environmental Studies in Higher Education?
This presentation shares the results of a questionnaire survey for students majoring in Environmental Studies in a Japanese university. Both the quantitative and qualitative methods clarified the relationships between their reasons for selecting this major, their environmental consciousness, significant life experiments, and life history.
Presenter(s): Rikuo Muramatsu (Musashino University)
Strand: Interest Areas: Exhibit Hall East

IBL for Learning to Design Numerical Model for Agriculture
Inquiry based learning is applied to teach K-12 students the design and application of numerical models for a sustainable development in agriculture (ACARISS). Students’ engagement is promoted by asking them this question: “How long does it take to cross Italy by bike?”
Presenter(s): Luciano Massetti (Institute of Biometeorology-National Research Council)
Strand: Interest Areas: Exhibit Hall East
Impacts of a Tribal Community Science/Traditional Environmental Knowledge Program
The poster will present impacts of the Ndee Bini Bida’ilzaahi program in Cibecue on the White Mountain Apache Reservation in Arizona, including influences on participants and community capacity for restoring lands and ecological knowledge.
Presenter(s): Jonathan Long (Pacific Southwest Research Station)
Strand: Exhibit Hall East
Interest Areas: 🌱 🌱

Integrating Schools and Communities Through Sustainability Science: Barriers and Opportunities
The Sustainability Science for Sustainable Schools program at Arizona State University partners with school districts to understand how to integrate sustainability science into Phoenix, AZ high school curriculum and campuses to improve the sustainability of the Greater Phoenix community.
Presenter(s): Benjamin Warner (Arizona State University)
Strand: Exhibit Hall East
Interest Areas: 🌱 🌱

Mapping Kentucky Green Schools: Geospatial Analysis of Environmental Education in Kentucky
Geographic information systems (GIS) offer a unique and innovative way to monitor program growth and outreach. Learn how the Kentucky Environmental Education Council (KEEC) has used mapping technology to analyze activity in the Kentucky Green & Healthy Schools (KGHS) and Nonformal EE Certification programs.
Presenter(s): Merin Roseman (Kentucky Environmental Education Council), Elizabeth Schmitz (Kentucky Environmental Education Council)
Strand: Exhibit Hall East
Interest Areas: 🌱 🌱

Student Investigation Helps an Oyster Company to Stay in Business
Results of a noise pollution investigation conducted by high school environmental science students will be presented. The study was performed in support of a local oyster company in response to a neighbor’s complaint after the installation of new sorting machine.
Presenter(s): Dean Goodwin
Strand: Exhibit Hall East
Interest Areas: 🌱 🌱

Sustaining System Finding the Balance Between Nature and Culture
In building the new LEEDS Platinum Environmental Learning Centre, we have attempted to find that elusive sustainable balance between natural and cultural systems.
Presenter(s): Victor Elderton (NV Outdoor School SD #44)
Strand: Exhibit Hall East
Interest Areas: 🌱 🌱

Twelve Teachers and One River: Lake Superior NERR's Rivers2Lake Program
Rivers2Lake connects educators and students directly to their watershed at the new Lake Superior National Estuarine Research Reserve. Using innovative mentoring to get classrooms outside, Rivers2Lake aims to anchor the largest US tributary on Lake Superior deep into the regional sense of place.
Presenter(s): Deanna Erickson (Lake Superior National Estuarine Research Reserve)
Strand: Exhibit Hall East
Interest Areas: 🌱

20-Minute Presentations
2:00 PM–2:20 PM

Model UN Climate Summit: Connecting Climate Science with Student Leadership
Students role-play the 2011 Durban United Nations Climate Summit experiencing the roles of nations in global diplomacy and scientists as contributors of knowledge while attempting to develop a framework to address issues and provide solutions to global Climate Change.
Presenter(s): Turtle Haste (Albuquerque Public Schools/JHUCTY)
Strand: Exhibit Hall East
Interest Areas: 🌱 🌱

Room: 205
Friday 2:25 PM

20-Minute Presentations
2:25 PM–2:45 PM

A Framework for Facilitating Environmental Debate and Dialogue
How can we encourage thoughtful, respectful dialogue about environmental issues during an EE lesson? Using an interactive format, we will present a framework for facilitating productive dialogue for the use of both formal and nonformal environmental educators in their practice.
Presenter(s): Ingrid Weiland (University of Louisville)
Strand: 🌿 Interest Areas: 🌿
Room: 205

Friday 3:00 PM

The following sessions all start at 3:00 PM. End times vary with the type of session.

45-Minute Presentations
3:00 PM–3:45 PM

Best Practices for Connecting Youth with Nature Through the Arts
The creative arts provide a powerful conduit for connecting youth with nature. Session will present strategies for using arts to help youth build environmental literacy and provide best practices for developing effective collaborations to promote, implement, and evaluate EE programs.
 Presenter(s): Mary Krupa-Clark (Get to Know Program), Patricia Winter (USDA FS, Pacific Southwest Research Station)
Strand: 🌿 Interest Areas: 🌿
Room: 201

Creating an Evaluation Toolkit: Measuring Behavior Change
Metro’s waste reduction education programs have the goal of changing behavior by encouraging students to adopt reduce, reuse and recycle behaviors. Come learn about our development of a comprehensive evaluation toolkit to measure changes in student attitudes and behaviors.
 Presenter(s): Sara Kirby (Metro)
Strand: 🌿 Interest Areas: 🌿
Junior Ballroom 1

Department of the Interior’s Youth in the Great Outdoors Initiative
Come learn how Interior connects youth with nature and public lands. Hear the latest about how we’re partnering with others to support education in America’s Great Outdoors and use education to build pathways to careers in STEM and natural resources.
 Presenter(s): Maria Arnold (Office of Youth, Partnerships, and Service)
Strand: 🍃 Interest Areas: 🍃
Grand Ballroom G

Environmental Education Through Environmental Justice
Environmental Justice is a field that is not well understood by university students or the general public. While texts and documentaries can increase student understanding, we believe that hands-on experiences can better attend to vital affective and cognitive outcomes.
 Presenter(s): Andree’ Walker Bravo (The Utah Society for Environmental Education), Adrienne Cachelin (University of Utah)
Strand: 🌿 Interest Areas: 🌿
Room: 201

Innovative Green Schools Models
Strategic Energy Innovations will be telling the stories of six schools integrating sustainable practices into their curriculum, culture, and operations. The presentation will highlight the role students play in transforming school culture through leadership, project based learning, and community service!
 Presenter(s): Cyane Dandridge (Strategic Energy Innovations)
Strand: 🌿 Interest Areas: 🌿
Grand Ballroom B
Outside the Classroom: A Student Group Can Change the World
Follow the story of Sustain Mizzou’s success at the University of Missouri and learn how to guide the energy and vision of students to develop leaders, grow an organization, transform a campus, and launch the next generation of environmental trailblazers.
Presenter(s): Jan Weaver (Missouri Environmental Education Association)
Room: California
Interest Areas:

School Recycling from Operations to Education: Resources and Programs from Keep America Beautiful
We’ll answer your operational questions, provide resources to take back to your school and create the link between recycling and hands-on educational learning when students participate. Good information for new and experienced school recycling program managers.
Presenter(s): Kelley Dennings (Keep America Beautiful), Cecile Carson (Keep America Beautiful)
Room: 202
Interest Areas:

The Roles of Nonprofit Boards; Who Is Responsible for What?
We will examine legal and ethical responsibilities of nonprofit boards, explore the difference between working boards and governing boards, and address the conundrum of who does what. Nature centers, community organizations, and EE associations—we all face the same questions.
Presenter(s): Susan McGuire (self-employed)
Room: Grand Ballroom F
Interest Areas:

What Children Think About Ocean Circulation
This workshop will use findings from an exploratory study on what children think about ocean circulation to initiate a discussion on how to help elementary learners understand ocean sciences concepts, as well as think about activity and curriculum design.
Presenter(s): Sarah Pedemonte (Lawrence Hall of Science), Lynn Tran (Lawrence Hall of Science/UC Berkeley)
Room: Grand Ballroom C
Interest Areas:

Youth Water Conservation and Quality Education
Learn new ways to engage youth in water conservation and quality topics through experiential and inquiry-based curriculum that involve youth in meaningful service learning projects! These approaches have been well tested in a variety of educational settings.
Presenter(s): Steven Worker (UC 4-H Youth Development Program), Martin Smith, Mary Meyer (University of California Cooperative Extension 4-H YDP)
Room: 208
Interest Areas:

20-Minute Presentations
3:00 PM–3:20 PM
Nerding Out! Developing Curriculum for the Yellowstone Youth Conservation Corps
Engaging youth in hands-on service while integrating environmental awareness curriculum is essential in nurturing connections with our park’s natural and cultural resources. Ensure that future generations understand, appreciate, and protect American’s Natural Heritage. Preliminary curriculum outline will be highlighted.
Presenter(s): Kristen Schulte (Teton Science Schools)
Room: 212
Interest Areas:

Engaging Audiences Through the Ocean to Plate Connection
KidSafe Seafood provides educational opportunities to engage youth in ocean conservation through the ocean to plate connection. KidSafe Seafood works to bridge the gap between education and action by promoting best practices for healthy, sustainable seafood consumption.
Presenter(s): Simone Lewis-Koskinen (SeaWeb)
Room: 206
The Gestalt of an Accreditable EE Teacher Training Program
This presentation describes the innovative efforts at the University of Montana that provides preservice teachers with the content and experiences to meet the standards outlined by NCATE/NAAEE for preservice education programs and the bases for NCATE accreditation by the program.
Presenter(s): Fletcher Brown (University of Montana)
Strand: ○ Interest Areas: 🌱 🌿 Room: 205

Friday 3:25 PM
20-Minute Presentations
3:25 PM-3:45 PM
Field Science Evaluation
What factors influence how participants experience our programs? Join us for an exploration of this question by using our field science evaluation as a case study. Our findings illustrate some key indicators for program design and overall effectiveness.
Presenter(s): Anne Burnett (NatureBridge), Kathleen O’Connor (Stanford University)
Strand: ○ Interest Areas: 🌱 🌿 Room: 212

Friday 4:00 PM
Keynote Presentations
4:00 PM-5:15 PM
Superintendent Tom Torlakson
California Department of Education
Environmental Education in California
As chief of California’s public school system and leader of the California Department of Education, Superintendent Tom Torlakson applies his experience as a science teacher, high school coach, and state policymaker to improve the state’s public education system. Tom’s journey has led him from the classrooms of Contra Costa County’s Mount Diablo Unified School District (where he remains a teacher-on-leave), to the Antioch City Council, Contra Costa County Board of Supervisors, and the California State Senate and State Assembly.

During his tenure in the State Legislature, Tom acted to protect education funding, improve student nutrition and physical education, and ensure school safety. In 2001, he authored a bill that created a series of integrated waste management and environmental education mandates for the California Department of Resources Recycling and Recovery.

Tom will also honor former Superintendent Delaine Eastin for her tireless advocacy that all California students cultivate a deep understanding of and lifelong commitment to the environment.

Exhibit Hall East

Craig Kielburger
Co-Founder, Free the Children
Education Creative, Compassionate, and Committed Young Leaders
Craig Kielburger co-founded Free The Children in 1995 at only 12 years of age. Today, he remains a passionate full-time volunteer for the organization, now an international charity and renowned educational partner that empowers youth to achieve their fullest potential as agents of change. Free the Children has worked in 45 countries and built more than 650 schools and school rooms in developing regions, providing education to more than 55,000 children every day.

Craig has received ten honorary doctorates and degrees, The Roosevelt Freedom Medal, The World Children’s Prize for the Rights of the Child (often called the Children’s Nobel Prize) and is one of the youngest recipients of The Order of Canada.

Exhibit Hall East
**Friday 5:30 PM**

**Special Event**
5:30 PM–7:15 PM

**Disneynature’s “Chimpanzee”**
Join us for a special screening of Disneynature’s “Chimpanzee,” with an introduction by Conservation Director for Animals, Science and Environment at Walt Disney Parks and Resorts, Dr. Anne Savage, who will discuss what Disney is doing to support environmental education and conservation.

Dr. Savage has traveled the world studying animals. She developed Proyecto Tití, a conservation program designed to conserve Colombia’s most endangered primate, the cotton-top tamarin, through scientific studies, and community development and education projects. As one of the project team members of Mission Himalayas, Anne worked with Walt Disney Imagineering and Conservation International to document the animal life in unexplored regions of Nepal and China, which has led to the discovery of new species that have been shared with the scientific and conservation communities.

**Exhibit Hall East**

**Friday 7:30 PM**

**Special Event**
7:30 PM–8:30 PM

**Stapp Scholarship Auction**
7:30 PM–8:30 PM

With items like a trip for two to the Galapagos and guest passes to Disneyland, this is bound to be one of NAAEE’s most energetic auctions yet! Good deals abound in every price range, and each purchase helps to support NAAEE’s student scholarship fund.

Check out Martha Monroe’s handcrafted mugs, books, T-shirts, jewelry, arts and crafts, software, and much, much more. Rumor has it the infamous (and ugly) piranha will be back; how about the priceless rhinestone studded crown? You’ve got to be there to find out!

Silent auction items will be on display in the exhibit hall on Friday and bidding will start at 8:00 AM. During the live auction, different sections of the silent auction will close every 15 minutes. Don’t miss out on the lively last minute rush to ensure your bid is the highest!

This 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 hold leadership positions in the organization.

**Exhibit Hall West**
New Resources for the Trail and Classroom

Acorn Naturalists offers NEW tools for environmental educators, naturalists, and interpreters. We also offer over 600 skull, track, and scat replicas and many other unique resources for environmental and outdoor educators.

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ARKive, a FREE educational resource, is urgently raising awareness about the plants and animals most at risk of extinction.

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More than 150 dreams take flight.

THANKS TO ALL OF OUR SPONSORS FOR THEIR GENEROSITY IN PROVIDING MORE THAN 150 SCHOLARSHIPS TO THIS YEAR’S CONFERENCE.
NAAEE is coming to the neighborhood... and you’re invited!

More than 1,000 environmental educators from across North America are coming to Oakland for the NAAEE annual conference. And we want to celebrate with our host city!

NAAEE welcomes you and your family to join us for two special events:

**ROCKIN’ WITH EE!**

A fun-filled family festival for all ages!

Join us for the first-ever NAAEE family festival with music, art, exhibits, prizes, and more. We’ll have activities for kids from 3 to 103.

Saturday, Oct. 13
3:00-6:00PM
Oakland Convention Center

- SING AND DANCE WITH BILLY B AND THE BANANA SLUG STRING BAND
- GET UP CLOSE WITH ANIMALS FROM THE OAKLAND ZOO
- TEST YOURSELF ON BAY AREA TRIVIA AND WIN GREAT PRIZES
- CLIMB ABOARD THE GREEN LIVING PROJECT’S SOLAR-POWERED RV
- GET CREATIVE AT THE ARTS AND CRAFTS STATION
- TAKE PART IN HANDS-ON ACTIVITIES FROM SOME OF YOUR FAVORITE ENVIRONMENTAL EDUCATION ORGANIZATIONS

and much, much more!
Saturday 7:00 AM

Special Event
7:00 AM–8:30 AM

Urban Birding
Anthony DeCicco of Golden Gate Audubon Society will get Saturday off to a great start with a free early morning bird walk for anyone interested. This will be a local walk or, if time and group size allow, you’ll head to Lake Merritt for California waterfowl. The trip will end in time to get to morning sessions at 8:30 AM. Audubon will provide binoculars if you don’t have your own.

Meet at the 10th Street entrance

Saturday 7:30 AM

Meeting
7:30 AM–9:00 AM

Accreditation Board Meeting
Members of the Accreditation Board will meet to discuss the next steps in the accreditation program. By invitation.

Room: 212

State Consortia Meeting
7:30 AM–8:30 AM

State Consortia Meeting
Year 1 and Year 2 State Consortia representatives are invited to meet and share ideas and experiences, learn from each other, and to reflect on the NAAEE conference experience and plan next steps. By invitation.

Grand Ballroom C

Saturday 8:30 AM

The following sessions all start at 8:30 AM. End times vary with the type of session.

Hands-On Presentations
8:30 AM–9:30AM

Building Understanding of Ocean Habitats in Early Elementary Classrooms
Participate in inquiry-based activities that introduce younger students to ocean habitats. These activities help to foster awareness and appreciation of these habitats, and provide opportunities for students to develop observation and investigation skills.

Presenter(s): Sarah Pedemonte (Lawrence Hall of Science), Emily Arnold (Lawrence Hall of Science)

Strand:  
Interest Areas: 🌊

Room: Skyline

Diversity Training: Two Approaches
Two organizations that have put substantial effort into diversity training for their staffs will share their different and effective models.

Participants will engage in thought-provoking discussion and interactive exercises that can improve our personal understanding of diversity and how it influences our teaching.

Presenter(s): Rebecca Detrich (NatureBridge), Bettina Mok (Student Conservation Association)

Strand:  
Interest Areas: 🧑‍💼

Junior Ballroom 1
Nature Connection for All: Cultural Competency in Environmental Education
A lack of diversity in environmental education has historically excluded communities of color. This workshop will examine our own privilege and biases, and offer effective tools to foster a connection to nature that’s more accessible for all students.
Coordinator(s): Karen Bhatti (step up)
Presenter(s): Allison Prime (North Vancouver School District)
Strand: 🌿 Interest Areas: 🌿 ♂
Room: California

North American Indians and Environmental Education: Resources, Collaboration and Consultation
Join us for an interactive opportunity to access new trends and best practice for consulting and collaborating with American Indians. Receive tips for locating up-to-date, accurate, and meaningful resources for interpreting the relationship between North American Indians and place past to present.
Presenter(s): Beverly Ortiz (East Bay Regional Park District), Gregg Castro (t’rowt’raahl Salinan/rumsien Ohlone)
Strand: 🌿 Interest Areas: 🌿 ♂
Grand Ballroom B

School Gardens and the Arts: Integrating Nature Across Elementary Curricula
Explore how school gardens and nature journaling can help students connect to the natural world. Discover how the arts can be used to integrate your school garden across curricula. Create nature journals and ground your teaching in school gardening history.
Presenter(s): Kelly Suzanne Johnson
Strand: 🌿 Interest Areas: 🌿 ♂
Room: 204

Using GIS to Involve Students in Citizen Science Projects
Use GIS to engage students in collecting, analyzing, visualizing, and communicating authentic learning experiences. In this session, participants will explore an online GIS tool that allows you to upload your data, compare it to other users, and analyze the data.
Presenter(s): Elena Takaki (National Geographic)
Strand: 🌿 Interest Areas: 🌿 ♂
Room: 208

Panel Presentation
8:30 AM–9:30 AM
Innovative Approaches to Climate Change
Discover how three organizations—the Alliance for Climate Education (ACE), the California Institute for Biodiversity and the National Center for Atmospheric Research—have used a variety of approaches to make climate science relevant to students.
Presenter(s): Matthew Lappe (Alliance for Climate Education), Melissa Saphir (Alliance for Climate Education), Lloyd Goldwasser (California Institute for Biodiversity; University of California, Berkeley), Ian Signer (Intelligent Play), Teresa Eastburn (National Center for Atmospheric Research)
Strand: 🌿 Interest Areas: 🌿 ♂
Junior Ballroom 2 & 3

Roundtable Discussions
8:30 AM–9:30 AM
Activism—Who, What, Where, When, and Why?
Have you wondered what this term really means or could mean to environmental educators? Perhaps you have some stories of activism you would like to share. Come along to this roundtable and we will discover, interpret, and come to appreciate activism in its many and varied forms.
Presenter(s): Peta White (University of Regina)
Strand: 🌿 Interest Areas: 🌿 ♂
Grand Ballroom EFGH, Table 1

The Care and Feeding of a Searchable Environmental Education Resource Database
“Our online searchable database has been created. Now what?” We will talk about the ways in which we are using the database, and convene a discussion on how to get valuable educational resources out of the database and into the hands of teachers and community leaders in Alberta.
Presenter(s): Christina Pickles (Alberta Council for Environmental Education), Gareth Thomson (Alberta Council for Environmental Education)
Strand: 🌿 Interest Areas: 🌿 ♂
Grand Ballroom EFGH, Table 2
Climate Education: Curriculum, Technology and Nature
Learn climate science basics, discuss strategies for cross-curricular lessons, and explore quality resources. Sample the Aldo Leopold Nature Center’s multidisciplinary exhibits and programs, and examine how those activities might be extended within your own classrooms, communities, and schoolyards.
Presenter(s): Brenna Holzhauer (Aldo Leopold Nature Center)
Strand: 🌿 Interest Areas:
Grand Ballroom EFGH, Table 3

Environmental Conservation and Biodiversity—Activities Inspired by Toyota International Teachers Program
Demonstrate field research activities in the areas of biodiversity and environmental conservation. We will showcase our Costa Rica trip and provide information on the Fund for Teachers program and the Toyota International Teachers Program.
Presenter(s): Bhavna Rawal (Humble ISD)
Strand: 🌿 Interest Areas:
Grand Ballroom EFGH, Table 4

Environmental Literacy in California—Current Statewide Efforts
How does a large state such as California infuse environmental education in schools? Learn about the California Regional Environmental Education Community (CREEC) Network and how it is contributing to the state’s Blueprint for Environmental Literacy.
Presenter(s): Anne Stephens (UC Davis and California Department of Education), Laura Powell (Bay Area CREEC)
Strand: 🌿 Interest Areas:
Grand Ballroom EFGH, Table 5

Explore Hawaii! with the Division of Forestry and Wildlife (DOFAW)
Hawaii DOFAW’s summer 2012 pilot education program for 9th and 10th graders integrates science & resource management with service learning & cultural education. Learn about the program while engaging in albatross bolus dissection and the creation of marine debris art.
Presenter(s): Michelle Jones (Division of Forestry and Wildlife—Hawaii Environmental Education Alliance)
Strand: 🌿 Interest Areas:
Grand Ballroom EFGH, Table 6

How to Integrate the Concept of Sustainable Development into School Curriculum
This study shows how school teachers can integrate the concept of sustainable development into school curriculum by using an “Idea Sheet for Learning ESD.” We clarify what requirements make ESD unique, aiming to introduce ESD to schools in an easy-to-understand way.
Presenter(s): Yasuhiko Okamoto (Okayama University of Science), Masakazu Goto (National Institute for Educational Policy Research of Japan), Naoyuki Tashiro (National Institute for Educational Policy Research of Japan), Masahisa Sato
Strand: 🌿
Grand Ballroom EFGH, Table 7

NAAEE Federal Policy Agenda—Making Things Happen for EE
NAAEE advocates on behalf of a variety of governmental policies. This is an introduction to the range of U.S. federal and state legislative and regulatory issues that the field supports, and what actions will be needed between now, year’s end, and beyond.
Presenter(s): Traci Price (The Environmental Education Association of Oregon)
Strand: 🌿
Grand Ballroom EFGH, Table 8

The No Child Left Inside Act: Systemic EE in K-12 Schools
Get caught up on the No Child Left Inside Act, a federal bill to increase environmental education in K-12 schools. Learn how changes in Congress may affect NCLI and the reauthorization of the Elementary and Secondary Education Act.
Presenter(s): Sarah Bodor (Chesapeake Bay Foundation), Daniell Moodie (National Wildlife Federation), Renee Strnad (North Carolina State University), Traci Price (The Environmental Education Association of Oregon)
Strand: 🌿
Grand Ballroom EFGH, Table 9

Oakland Unified Wants Our Students to Be Green Explorers
We want to teach our children about the environment. What better place to start is within the school with hands-on activities that results in real change and provides action. Come learn what is happening in Oakland Unified School District.
Revitalizing an Outdoor Center Through School District and University Partnerships
When budget cuts threatened to close the Cooper Center after 40 years, the Tucson Unified School District searched for partners. The University of Arizona’s College of Education responded, helping to revitalize the center and offer outdoor learning experiences for a variety of ages. 
Presenter(s): Colin Michael Waite (Cooper Center for Environmental Learning), Mike Mayer (The Institute for Earth Education and University of Arizona)
Strand: 🍃 Interest Areas: 🏖️
Grand Ballroom EFGH, Table 11

An experimental K-5 summer school program that teaches ungulate ecology through story and embodiment will be shared. Emerging research interpretations will be explored, and student artwork and writing will be discussed.
Presenter(s): Joel Pontius (University of Wyoming)
Strand: 🍃 Interest Areas: 🏖️
Grand Ballroom EFGH, Table 12

Integrating Gardening into Summer Camps and Environmental Education Centers
You’re ready to put in an organic garden at your camp or field station. But how will it fit into your programs? Can you use the produce in the kitchen? The Central Wisconsin Environmental Station staff share experiences about gardening at an environmental education center.
Presenter(s): Jennica Skoug (Central Wisconsin Environmental Station)
Strand: 🍃 Interest Areas: 🏖️
Grand Ballroom EFGH, Table 12

Connecting National EE Standards with Common Core Standards
While developing the Kentucky Environmental Literacy Plan, our team correlated national K-12 Common Core standards with NAAEE’s learner standards. The correlations show that instruction through environmental education can provide myriad ways to address the common core standards, while providing the basis for an environmentally literate citizenry.
Presenter(s): Elizabeth Schmitz (Kentucky Environmental Education Council), Terry Wilson (Western Kentucky University), Joseph Baust (Murray State University), Billy Bennett (Eastern Kentucky University)
Strand: 🍃 Interest Areas: 🏖️
Junior Ballroom 4

Looking for Links Between Environmental Literacy and School and Societal Variables
Using data from over 9,900 middle school students in 112 schools in the U.S., we explored links between environmental literacy variables and a variety of educational and socio-demographic conditions. This session presents preliminary findings.
Presenter(s): William McBeth (University of Wisconsin Platteville), Trudi Volk (CISDE), Harold Hungerford (CISDE), Tom Marcinkowski (Florida Institute of Technology)
Strand: 🍃 Interest Areas: 🏖️
Room: Oakland

Merging Field Studies with Mobile and Online Technologies
A river education initiative infuses a new mobile app and website with field studies for K-12 students. Preliminary evaluation and feedback from pilot programs will be shared. Participants will use the app and website in sample activities.
Presenter(s): Steven Kerlin (Northern Kentucky University), Miriam Kannan (Northern Kentucky University)
Strand: 🍃 Interest Areas: 🏖️
Room: 201

Science Talk in the Outdoors
Education research has revealed that the act of talking about ideas is crucial to learning, but many outdoor science educators provide few such opportunities for students. Learn innovative practical strategies for making outdoor science experiences more learner- and discussion-centered.
Presenter(s): Kevin Beals (Lawrence Hall of Science, BEETLES—Better Environmental Education, Teaching, Learning, Expertise & Sharing), Lynn Barakos (BEETLES—Better Environmental Education Teaching, Learning, Expertise and Sharing)
Strand: 🍃 Interest Areas: 🏖️
Room: 210
Speaking of Climate Change: Moving Toward “How Do We Know?”
Learn how to increase the quality and quantity of student talk in the classroom to achieve greater understanding—not only what we know about the environment but how we know it, thereby improving students’ skills and capacity to act.
Presenter(s): Nicole Holthuis (Stanford/Consultant), Jennifer Saltzman
Strand: ☀️ ☑️ Interest Areas: 🌟
Room: 202

20-Minute Presentations
8:30 AM-8:50 AM
California High School History, Science, and Social Science Sustainability Instruction
Learn about a 2012 foundational study on sustainability instruction with California’s public high school history, science, and social science teachers as expert informants. Focused on instructional influences, aggregate findings suggest the range and extent of environmental sustainability education taking place.
Presenter(s): Jeanne Knapp (Merced College)
Strand: ☀️ ☑️ Interest Areas: 🌟
Room: 206

Environmental Education for the Next Generation
Environmental Education for the Next Generation is dedicated to bringing learning to life. Our internally developed Environmental Science & Sustainability Program links teams of college student-instructors with 1st and 2nd grade classes for weekly activities, experiments, and discussions that explore the relationship between humans and the natural world.
Presenter(s): Tanya Heravian (Environmental Education for the Next Generation), Ryland King (Environmental Education for the Next Generation [EENG]), Nick Allen (Environmental Education for the Next Generation)
Strand: ☀️ ☑️ Interest Areas: 🌟
Room: 207

The Mississippi River and Climate Change: A Place Based Approach to Climate Change Education
Participants will learn about a project using the Mississippi River as a context for learning, teaching, and taking action against climate change impacts. Partners include the Mississippi National River and Recreation Area (NPS), National Park Foundation and the Will Steger Foundation.
Presenter(s): Kristen Poppleton (Will Steger Foundation)
Strand: ☀️ ☑️ Interest Areas: 🌟
Room: 211

Waterlife: Serious Games for Learning
NOAA has developed serious environmental online games for elementary and middle school students to promote knowledge about estuaries and loggerhead sea turtles. Supporting materials and digital projects provide extension options for educators, students and families.
Presenter(s): Peggy Steffen (NOAA National Ocean Service)
Strand: ☀️ ☑️ Interest Areas: 🌟
Room: 205

Saturday 8:55 AM
The following sessions all start at 8:55 AM.

20-Minute Presentations
8:55 AM–9:15 AM
The Changing Climate of Your California Coast
Find out why one of the world’s most productive ocean ecosystems occurs along the California coast! Learn what upwelling is, why this area is so rich with marine life, and what climate change impacts lie in store for us.
Presenter(s): Carol Preston (NOAA GFNMS)
Strand: ☀️ ☑️ Interest Areas: 🌟
Room: 211

New Horizons—An Introduction to Joint Ventures
This presentation will introduce you to national joint ventures and and ways in which San Francisco Bay Joint Venture works with over 100 organizations to educate residents, funders, elected officials and others about work being done to protect Bay Area wetland habitats for wildlife.
Presenter(s): Caroline Warner (SF Bay Joint Venture)
Strand: ☀️ ☑️ Interest Areas: 🌟
Room: 205
The Rise of Multicultural Eco-High Schools
More than 200 multicultural eco-high schools exist nationwide. The varied origins of such schools, and lack of communication between them, create an opportunity for shared learning that remains unrealized. This talk will suggest how to overcome such barriers.

Presenter(s): Max Weintraub (U.S. EPA)
Strand: Interest Areas:
Room: 206

Service Learning and the Natural Environment at FGCU
Join faculty and student naturalists from Florida Gulf Coast University and learn about service learning and the natural environment on campus and get tips and tricks for promoting similar service events at your school.

Presenter(s): Sarah Davis (Florida Gulf Coast University), Ariel Chomey (Florida Gulf Coast University), Greg Kosik (Florida Gulf Coast University), Sarah Norris (Florida Gulf Coast University), Joan Firth (Florida Gulf Coast University)
Strand: Interest Areas:
Room: 207

Saturday 9:00 AM
Meeting
9:00 AM-10:30 AM
NAAEE Board Meeting
Grand Ballroom C

Saturday 9:45 AM
Symposia
9:45 AM-11:30 AM

International Exchange of Ideas About the Preparation of Teachers
How do countries outside the U.S. prepare teachers in EE? Come to an interactive dialogue with teacher educators to exchange ideas about the preparation of teachers in EE and share potential ideas for collaboration.

Presenter(s): Christine Moseley (University of Texas at San Antonio), Al Stenstrup (American Forest Foundation)
Interest Areas:
Junior Ballroom 4

Making Connections with Latino Communities
Join us for a lively discussion of the challenges to involving Latinos in science and nature-based education at natural areas. Panel members are Latino and experienced educators and interns.

Presenter(s): Natasha Kerr (Environment for the Americas)
Strand: Interest Areas:
Room: 207

State Green Schools Networks: How Can We Reach More Schools?
Don’t reinvent the wheel! Panelists will demonstrate how networks make it easier to engage more teachers; to find grants, free speakers, free field trips, and teacher training workshops; and to get the support you need. Share YOUR state’s successes and challenges.

Moderator(s): Jennifer Seydel (Green Schools National Network)
Presenter(s): Deborah Moore (Green Schools Initiative), Abby Ruskey (EEAW/E3 Washington), Cheryl Schnell (Island City Research Academy)
Strand: Interest Areas:
Junior Ballroom 2 & 3

What Makes Journals Relevant Today? Different Approaches in Diverse Settings
This symposium will be a discussion with creators of journals and workbooks who work in diverse settings. They will share their approaches and how relevant journaling is in today’s diverse world and for reaching conservation goals.

Moderator(s): Sandi Funke (Pepperwood Preserve)
Presenter(s): Akiima Price (Akiima Price Consulting), Anne Marie Tipton (California State Parks), John Laws (California Native Plant Society)
Strand: Interest Areas:
Room: Skyline
45-Minute Presentations
9:45 AM- 10:30 AM

Dissolving the Walls: Beyond the Classroom in the Living Lab
The evolving story and lessons learned as Oakland’s Bishop O’Dowd High School transforms a vacant hillside into a 3.5-acre oasis of biodiversity. The new Center for Environmental Studies building will launch our next chapter in developing environmental literacy and leadership.
Presenter(s): Susi Marzuola (Siegel & Strain Architects), Tom Tyler (Blue Beyond Consulting), Annie Prutzman (Bishop O’Dowd High School)
Strand: Interest Areas: Room: 210

GLOBE on a Budget
This session will show how to use GLOBE protocols to study earth system sciences with no or a low cost budget.
Presenter(s): Jessica Mackaro (GLOBE)
Strand: Interest Areas: Junior Ballroom 1

Having Trouble Working with High School Students?
The successful Generation Green of Lake Tahoe program connects high school students to the land through club activities, volunteerism, and youth employment.
Presenter(s): Joy Barney (US Forest Service)
Strand: Interest Areas: Room: Oakland

Intellectual, Emotional, and Social Benefits of Being Outside at School
Using ecological psychology as a lens to children’s experiences in a green schoolyard, a yearlong study found that children were supported academically, socially, and emotionally by their class time spent in the naturalized area of the schoolyard. Findings and implications will be discussed.
Presenter(s): Kelly Keena (University of Colorado Center for Children, Youth, and Environments; and Mapleton Public Schools)
Strand: Interest Areas: Room: 211

NAAEE 2012-2013 Conference
What worked? What didn’t? What would you like to see next year? Help us plan for our 2013 conference in Baltimore by sharing your thoughts on the 2012 conference. We welcome your input and ideas.
Room: 212

Schools Going Solar
Hands-on activities allow participants to explore solar energy, ways we use the sun’s energy, and how photovoltaic cells work. Web-based activities use real-time data from solar panels at school sites across California and across the country.
Presenter(s): Barry Scott (The NEED Project), Greg Holman (Evergreen 6th Grade Academy)
Strand: Interest Areas: Room: 201

The View Below: Using Creek Snorkeling to Connect People to Streams
The view below is amazing! This presentation will explore stream based classroom curricula, and will discuss how to implement a creek snorkeling program.
Presenter(s): Keith Williams (NorthBay)
Strand: Interest Areas: Room: 202

20-Minute Presentations
9:45 AM-10:05 AM

Development of Framework and Guideline of Education for Sustainable Development
By placing sustainability at the center of social, ecological and economic education, the National Institute for Educational Policy Research has developed the innovative framework and guideline for Education for Sustainable Development (ESD) to prevail all over Japan.
Presenter(s): Masakazu Goto (National Institute for Educational Policy Research of Japan), Naoyuki Tashiro (National Institute for Educational Policy Research of Japan), Yasuhiko Okamoto (Okayama University of Science), Masahisa Sato
Strand: Interest Areas: Room: 208
Knowledge, Attitude, and Behavior Toward Water Conservation and Pricing in Taiwan
A survey was conducted for understanding knowledge, attitude, and behavior related to water conservation and water pricing in Taiwan. It was found that the maximum water price is NT$ 15 per tonne. More people tend to save water with higher water prices.
Presenter(s): Huiching Yu
Strand: Interest Areas: 🌱
Room: 206

Strengths and Limitations of School Sustainability Rating Systems
This presentation will share the results of a systematic review of the strengths and weaknesses of 32 rating systems designed to assess and recognize school sustainability performance. Recommendations for improving these rating systems will also be shared and discussed.
Presenter(s): Julian Dautremont-Smith (University of Michigan)
Strand: Interest Areas: 🌱
Room: 205

Saturday 10:10 AM
20-Minute Presentations
10:10 AM–10:30 AM

Caring About Tomorrow: Future Orientation, Environmental Attitudes and Behaviors
The idea of sustainability encapsulates our imperative to think forward, to be future-oriented. Can humans be future-oriented and will this necessarily promote pro-environmental attitudes and behavior? The answers and their implications for EE will be presented.
Presenter(s): Nurit Carmi (Tel-Hai College)
Strand: Interest Areas: 🌱
Room: 206

Cool the Earth.Org's Primary School Program: Program Efficacy
Cool The Earth is an effective behavior change program for K–8 schools. The program empowers students and families to take actions, motivating change at home and at school. This presentation discusses the results of a program evaluation of the program.
Presenter(s): Carleen Cullen (Cool The Earth)
Strand: Interest Areas: 🌱
Room: California

The Desegregation of Nature—Conservation for the 21st Century
Nature is an unsegregated wildlife “garden” where plants and animals co-inhabit and interact in a constantly changing theater. This PowerPoint will be a visual tour of the strange, fascinating and sophisticated relationships between plants, insects and biodiversity conservation on wildlands.
Presenter(s): Norman Gershenz (SaveNature.Org)
Strand: Interest Areas: 🌱
Room: 208

Environmental Learning in British Columbia: A Grounded Theory Exploration of Teachers’ Practices
Since the 1977 Tbilisi Declaration, most education jurisdictions have supported an interdisciplinary approach to teaching environmental education. Find out how British Columbia K-12 teachers incorporate environmental education into their teaching practice as well as what supports and barriers they experience.
Presenter(s): Connie Cirkony (BC Ministry of Education)
Strand: Interest Areas: 🌱
Room: 205

Saturday 10:45 AM
Hands-On Presentations
10:45 AM–11:45 AM

NCATE Environmental Education Standards: An Opportunity for Input
NCATE approves standards used to accredit teacher education programs across the country. NAAEE is revising our NCATE approved EE standards. Come, learn more about this process and provide feedback to the writing team.
Presenter(s): Terry Wilson (Western Kentucky University), Bora Simmons (National Project for Excellence in Environmental Education)
Interest Areas: 🌱
Room: 204
Online Junior Ranger Activities Challenge Youth to Take Climate Change Action
Explore new online activities that challenge students to solve a mystery in national parks, learn climate change basics, and join an online Climate Community. Discover ways to use the activities and community to link learners’ actions with real world impacts.
Presenter(s): Pamela Barnes (National Park Service), Ruth Paglierani (University of California, Berkeley)
Strand: 🌐  Interest Areas: 👤
Room: 208

Scaling Up U.S. Department Of Education’s Green Ribbon Schools
National and state leaders will provide a brief update on the program followed by an opportunity for states (or regions) to collaborate on developing, building support, and establishing partnerships for the US Department of Education Green Ribbon Schools recognition program.
Presenter(s): Gilda Wheeler, James Elder (Campaign for Environmental Literacy), Kathleen Moore (State of California)
Strand: 🌐  Interest Areas: 👤
Room: California

Their Voices, Their World: Connecting Conservation with the Classroom Through Children’s Literature
We sometimes shelter elementary school-aged from challenging issues because we struggle with them as adults. Learn about using children’s literature written by children to frame conservation challenges as opportunities to make a positive difference and connect global issues to local communities.
Presenter(s): Danica Hendrickson (Facing the Future), Dave Wilton (Facing the Future)
Strand: 🌐  Interest Areas: 👤
Panel Presentations
10:45 AM–11:45 AM

A Biologist, An Educator, and a Social Worker Walked Into a Bar...
At the intersection of restoration and collaboration, you can find tremendous motivation and multiple successes. Explore three very different and effective restoration collaborations that are making a difference. The projects include workforce training, community involvement, and species preservation.
Presenter(s): Dan Hubacker (United Anglers Inc.), Cary Olin (Sonoma County Water Agency), David Stronck (Calif. State Univ., East Bay)
Strand: 🌐  Interest Areas: 👤
Room: Oakland

Farming, Culture, and Environment: On-Farm Hands-On Education for School Groups
This session presents three models for on-farm, hands-on education: activities at an historic farm operated by a regional park district; overnight field trips to an organic farm; and Farming in the Watershed lessons at an urban edge agricultural park.
Presenter(s): Hallie Muller (Full Belly Farm), Leah Ingram (SAGE Sustainable Agriculture Education, Sunol AgPark), Nina Suzuki (Center for Land-Based Learning)
Strand: 🌐  Interest Areas: 👤
Room: 211

45-Minute Presentations
10:45 AM–11:30 AM

Extending Beyond the Classroom with the California EEI Curriculum
California’s Education and the Environment (EEI) Curriculum serves as a catalyst to connect K-12 teachers with a variety of environmental education providers outside of the classroom. Come hear specific examples, including watershed education, state parks connections, outdoor education, and more!
Presenter(s): Christy Porter Humpert (California Environmental Protection Agency, Office of Education and the Environment), Gerald Lieberman (State Education and Environment Roundtable)
Strand: 🌐  Interest Areas: 👤
Room: 202

Great Young Floridians: A New Residential Program Series
Great Young Floridians is a series of new, overnight programs giving elementary through high school students the opportunity to connect school-based curriculum and academic learning with the outdoors by enhancing outdoor skills, practicing conservation, and investigating environmental careers.
Presenter(s): Bradley Hartle (Florida Atlantic
University Pine Jog Environmental Education Center, Susan Toth, Joy Ford-Fradique (Pine Jog EE Center)

Strand: Interest Areas: 🌱 🌿 Room: 210

NAAEE Annual Business Meeting
Join us for an inside look at NAAEE’s exciting new plans for the future. Join NAAEE’s new leadership team, including Judy Braus, Executive Director, Christiane Maertens, Deputy Director, and Jose Marcos-Iga, President, for an update on the health of the organization, the status of our strategic thinking, and how you can get involved!
Presenter(s): Jose Marcos-Iga (Environmental Education Exchange), Judy Braus (NAAEE), Christiane Maertens (NAAEE)

Room: 203

Spiritual Advocacy in Environmental Education
Spiritual advocacy in environmental education means bringing the spiritual roots of the environmentalist movement into the practice of environmental education. Please join the presenter and engage in a lively discussion to discuss the strengths and drawbacks of this proposal.
Presenter(s): Samuel Wasserman-Singer (University of Wyoming)

Strand: Interest Areas: Room: 201

Saturday 11:45 AM

Special Event
11:45 AM-1:45 PM

NAAEE Awards Luncheon
Help us recognize NAAEE’s annual award recipients at the Saturday Awards Luncheon. Awards are presented to individuals and organizations at the local, regional, and national levels, and include the highest honor that NAAEE bestows, the Walter E. Jeske Award.

Gerry Ellis, an award-winning photojournalist will share his spectacular images as he discusses his discoveries to date in his search to answer the question, “Will great apes survive in the wild by the end of this decade?”
Gerry has traveled to Rwanda, the Democratic Republic of the Congo.

Saturday 2:00 PM

Hands-On Presentations
2:00 PM-3:00 PM

Biocomplexity—The Key to Arctic Conservation
The Arctic is changing at an unprecedented pace, with unpredictable impacts on Arctic species. What conservation challenges lie ahead? Come learn strategies for engaging high school students so they understand biocomplexity and apply basics of conservation biology to Arctic species.
Presenter(s): Gilly Puttick (TERC)

Strand: Interest Areas: Room: 204

Busting Energy Hogs: Making Energy Efficiency Visible
Energy Hogs are things that waste energy. Learn to play Energy Hog Tag, which engages entire school populations in hunting Energy Hogs, aligns with core curriculum standards in multiple disciplines, and successfully reduces energy consumption.
Presenter(s): Jennifer Alldredge (Alliance to Save Energy), Danielle Harrison, Knox County Schools, Vince Meyer, Knox County Schools, TN

Strand: Interest Areas: Room: California

Slugtopia: EE with the Banana Slug String Band
Enter the world of the slugs: music with roots ... dancing with water ... acting like air. Master musicians and environmental educators invite you into their wacky and wonderful world!
Presenter(s): Larry Graff, Steve VanZandt (San Mateo County Outdoor Education), Mark Nolan (San Mateo County Outdoor Education), Doug Greenfield

Strand: Interest Areas: Junior Ballroom 1
Panel Presentations
2:00 PM–3:00 PM

Analyzing Sustainability Themes in State Science Standards: Two Case Studies
Is sustainability education adequately incorporated into K-12 state science standards? If so, which sustainability-related topics are included and how are they addressed? Comprehensive case studies of K-12 science standards from two different states helped answer these questions.
Presenter(s): Hannah Miller (Michigan State University), Linda Cronin-Jones (University of Florida)
Strand: 🌿 Interest Areas: 🌿
Room: 210

Stories From Young Activists: Our Future is in Good Hands!
Young people throughout the world are stepping up and often leading the way in the environmental field. A panel of young activists will share their passion and action, successes and challenges as activists on behalf of the environment. Their stories give us hope for a more sustainable future.
Moderator(s): Peta White (University of Regina)
Presenter(s): Ella Van Cleave (Glenlyon Norfolk School), Ryland King (Environmental Education for the Next Generation (EENG)), De’Anthony Jones (Environmental Students Organization at Sacramento State)
Junior Ballroom 2 & 3

45-Minute Presentations
2:00 PM–2:45 PM

Building the Capacity of EE Through Regional Small Grant Programs
NAAEE affiliate organizations in 6 out of 10 EPA regions were recently awarded $150,000 each to facilitate regional small grants programs for environmental education. Come learn about the success of this unique collaboration and how YOUR organization can get involved.
Presenter(s): Andree’ Walker Bravo (The Utah Society for Environmental Education), Ashley Hoffman (Kentucky Association for Environmental Education), Drew Dumsch (Maine Environmental Education Association), Laura Johnson Collard (Maryland Association for Environmental and Outdoor Education (MAEOE)), Laura Downey (Kansas Association for Conservation and Environmental Education)
Strand: 🌿 Interest Areas: 🌿
Room: Oakland

Investigating Science Undergraduates’ Conceptions and Misconceptions of Ocean Acidification
To what extent do advanced undergraduate science students—of junior or senior class standing—in the disciplines of Biology, Chemistry, and Environmental Studies understand the process of ocean acidification?
Presenter(s): Kathryn Danielson (SEPAL: The Science Education Partnership and Assessment Laboratory, Biology Department, San Francisco State University)
Strand: 🌿 Interest Areas: 🌿 🌷 🌿
Room: 211

It Takes a Village: Green Neighborhood Builds Partnerships and Sustainability
A Western Kentucky University and Habitat for Humanity partnership project is creating a green housing community with integrated green infrastructure as a statewide demonstration and education model. Session will explore funding, project design, essential partnerships, hurdles encountered, and development stages.
Presenter(s): Nancy Givens (WKU), Terry Wilson (Western Kentucky University)
Strand: 🌿 🌷 🌹 🌿
Junior Ballroom 4

The Lexicon of Sustainability
Join environmental education professor Rocky Rohwedder and photographer Douglas Gayeton as they introduce the Lexicon of Sustainability. Featuring rich visual images and video, this presentation will explore a crowd-sourcing approach to environmental education and the important role of information art.
Presenter(s): Rocky Rohwedder (Sonoma State University), Douglas Gayeton (Lexicon of Sustainability)
Strand: 🌿 🌷 🌹 🌿
Room: 202

Professional Learning Communities: Improving Our Practice Through Collaborative Spaces
Learn about these spaces for the sharing of ideas and experiences and the building of knowledge through a collaborative process.
These learning communities are presented by the EECapacity Project, which supports environmental education and youth and community development in North America. Presenter(s): Jose Marcos-Iga (Environmental Education Exchange)

Room: 201

Using Market Research to Advance Your Communication Effectiveness
In addition to presenting The Ocean Project’s updated 2012 market research findings and their implications for strategically communicating for conservation outcomes, this session will discuss others’ attitudinal research findings and implications, and how to leverage on this cutting-edge data to advance conservation outcome goals.

Presenter(s): Wei Ying Wong (The Ocean Project)

Strand: Interest Areas:

Room: 203

20-Minute Presentations
2:00 PM–2:20 PM

The Impact of Intergenerational EE Programs on the Community Residents
Intergenerational EE activities held by a school will be introduced. The purpose of this study is to understand the impact of the school’s long-term arrangement of these activities on the residents’ sense of community, community participation, and attitudes toward elderly.

Presenter(s): Shih-Tsen Liu

Strand: Interest Areas:

Room: 205

Using School Gardens to Teach Across the Curriculum—Barriers to Integration
School gardens were constructed at a middle school in Northwest Arkansas. Students work with volunteers and teachers to maintain the school gardens while learning about gardening and sustainability. Integrating the school gardens into the curriculum across disciplines has been difficult.

Presenter(s): Lisa Wood (University of Arkansas)

Strand: Interest Areas:

Room: 207

What’s in Your Water?
Learn how to engage your students in a fascinating project that will allow them to study the aquatic life and water quality of their local rivers, ponds, and streams. Also, discover the link between community health and water quality.

Presenter(s): Laura Childers (Sequoia Riverlands Trust)

Strand: Interest Areas:

Room: 206

Saturday 2:25 PM

20-Minute Presentations
2:25 PM–2:45 PM

Creating a Groundswell: Organizational Synergy for Fostering Environmental Education
“Groundswell” is an environmental education program that trains and supports teachers in Michigan. Groundswell’s success depends on a large network of partners collaborating to efficiently maximize local resources. Learn how Groundswell creates community partnerships to foster superior environmental education experiences.

Presenter(s): Michael Posthumus (Groundswell), Mark Fitzpatrick (Ada Township Parks and Recreation), Clay Pelon (Grand Valley State University)

Strand: Interest Areas:

Room: 205

GreenSTEM: Engaging Students in Protecting Puget Sound
GreenSTEM is a program developed by the Pacific Education Institute and the Puget Sound Partnership to engage students in learning about, and preservation of, the Puget Sound. This presentation describes the program and discusses its impact on students and teachers.

Presenter(s): Oksana Bartosh (Directions Evidence and Policy Research Group), Erica Baker (Pacific Education Institute)

Strand: Interest Areas:

Room: 206
**Saturday 3:00 PM**

**Special Event**  
3:00 PM–6:00 PM

**Rockin’ with EE**  
In NAAEE’s first ever family festival—free and open to conference participants and community members throughout the Bay Area—we’ll be singing and dancing with Billy B., Pacha’s Pajamas, and the Banana Slug String Band. You can get up close with live animals, spin the wheel to test your water IQ, add to a growing natural materials sculpture, learn about tracks, wiggle a worm from a compost bin, and more, more, more! There will be arts and crafts and prizes and surprises! Help us share and celebrate environmental education and come have fun!

**Saturday 6:00 PM**

**Special Event**  
6:00 PM–8:00 PM

**Conference Closing**  
Let’s wrap up the week together with an opportunity to hear from two of the country’s leading environmental experts: Bob Perciasepe, Deputy Administrator, U.S. Environmental Protection Agency, and Dr. M. Sanjayan, lead scientist for the Nature Conservancy and CBS science and environmental contributor. Join your friends and colleagues for an inspiring evening of great conversation, delicious bites, spirits, and music.

**Bob Perciasepe**  
Deputy Administrator  
U.S. Environmental Protection Agency

With his appointment by President Obama in 2009, Bob Perciasepe returned to the U.S. Environmental Protection Agency to serve as Deputy Administrator—the nation’s second ranking environmental official and the agency’s chief operating officer. In this role, Bob continues a career spanning nearly four decades as one of the nation’s leading environmental and public policy figures. He is widely respected within both the environmental and U.S. business communities.

His extensive experience includes service both inside and outside of government. He served as a top EPA official in the administration of President Bill Clinton—first as the nation’s top water official and later as the senior official responsible for air quality across the U.S. Prior to his current position, he was chief operating officer at the National Audubon Society. He has also held top positions within state and municipal government, including as Secretary of the Environment for the State of Maryland and as a senior official for the City of Baltimore.

**Dr. M. Sanjayan**  
Education—A Powerful Tool for Conservation and Our Future

Dr. M. Sanjayan is the lead scientist for the Nature Conservancy, where he specializes in human well-being and conservation, Africa, wildlife ecology and media outreach and public speaking on conservation issues. In addition to being the Conservancy’s lead scientist, Sanjayan holds a doctorate from the University of California, Santa Cruz and has a research faculty appointment with the Wildlife Program at the University of Montana.

In addition to his work with the Conservancy, Sanjayan is a CBS correspondent and a frequent speaker at internationally recognized venues, including the World Forum on Sustainable Development, International Women’s Forum, and TED Global 2010. He is also a Catto Fellow with the Aspen Institute.

This event is sponsored by

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**Sunday 9:00 AM**

**Field Experiences**  
9:00 AM–4:00 PM

Please check the current listings at the registration desk for available field trips. Lunch is included with all field experiences.
NAAEE Staff and Board

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- Colorado Alliance for Environmental Education
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- District of Columbia Environmental Education Consortium
- League of Environmental Educators in Florida
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- Iowa Conservation Education Coalition
- Kansas Association for Conservation and Environmental Education
- Kentucky Association for Environmental Education
- Louisiana Environmental Education Association
- Maine Environmental Education Association
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- Massachusetts Environmental Education Society
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- Michigan Alliance for Environmental and Outdoor Education
- Minnesota Association for Environmental Education
- Mississippi Environmental Education Alliance
- Missouri 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 New Mexico
- New York State Outdoor Education Association
Environmental Educators of North Carolina
North Dakota Coalition for Conservation and Environmental Education
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• Links to Annenberg Learner resources

For All Environmental Education Teachers
Journey North: Global Study of Migrations and Seasonal Change
• Web site with classroom activities
• Mobile app to report fall and spring sightings
• www.learner.org/jnorth/

The Habitable Planet: A Systems Approach to Environmental Science
• 24 video case studies featuring leading environmental scientists
• 5 interactive simulations
• Online text
• www.learner.org/courses/envsci/

Pick up an EEI Resource disc from Annenberg Learner at the NAAEE conference