

2022 NAAEE Conference Preliminary Schedule: In-Person Concurrent Sessions

Title	Summary	Participants	Date	Start Time Mountain Standard Time	End Time Mountain Standard Time	Session Format	Delivery Method
<p><i>Arizona does not observe Daylight Saving Time. All session times are indicated in Mountain Standard Time; Mountain Standard Time is equivalent to Pacific Daylight Time.</i></p> <p><i>This is a preliminary schedule; sessions, times, and presenters are subject to change. The final schedule will be available through the conference platform when it launches in October. The platform includes the opportunity to add sessions to your calendar.</i></p>							
Pre-Conference Workshops (preregistration and additional fee required)							
Advancing Civics in Environmental Education	Wondering what all the hype is around Environmental Action Civics? Looking for ways to meaningfully engage youth in local community environmental solutions while stimulating deeper learning? Join us for this dynamic four-part workshop where we will include a mix of activities, media, and guest speakers (including local experts from Arizona universities).	Vince D Meldrum, Earth Force; Alyssa McConkey, Earth Force	Wednesday, October 12	8:30am	12:00pm	Workshop	in-person
Engaging Classrooms in Environmental Data and Community Science with FieldScope	Learn about a set of open access lessons for middle and high school learners that engage them in scientific inquiry using real data generated from volunteers. We will also share how projects can bring their environmental monitoring datasets into the FieldScope platform and model the instructional approach.	Sean O'Connor, BSCS Science Learning; Audrey Mohan, BSCS Science Learning; Jessica Bean, University of California, Berkeley	Wednesday, October 12	8:30am	12:00pm	Workshop	in-person
Engaging Youth Groups in Community Action Projects for the Environment	CAPE (Community Action Projects for the Environment) is a new program for youth clubs combining environmental education and civic engagement. In 8 meetings youth select an issue and focus a project on addressing a policy change in their community to benefit their environment. Take home a guide to test!	Martha C. Monroe, University of Florida; Gabby Salazar, University of Florida; Ailee Odom; Sarah West Davis, UF/IFAS Extension Sarasota County	Wednesday, October 12	8:30am	12:00pm	Workshop	in-person
Community-Centered EE: NAAEE Community Engagement Guidelines Leaders WorkshopCommunity-Centered EE: Introducing NAAEE's Community Engagement Guidelines	Come join this supportive, engaged network of workshop leaders! This interactive session introduces NAAEE's Community Engagement: Guidelines for Excellence and the Equity & Inclusion expansion of these guidelines; offers facilitation and programming ideas; plus guidance to design learning opportunities in your community context. Participants will also attend a virtual November coaching session. This workshop is sponsored by ee360; registration and lunch are included.	Libby McCann, Antioch University New England; Jean Chimbirima Kayira, Antioch University New England; Luciana Ranelli, Antioch University New England; Emily Schuttenberg, Antioch University New England; Susana C Mateos, Antioch University New England; Anne Umali, NAAEE; Bora Simmons, National Project for Excellence in Environmental Education	Wednesday, October 12	8:30am	4:30pm	Workshop	in-person
Affiliate Workshop	Join other leaders from the NAAEE Affiliate Network as we come together for our annual Affiliate Workshop designed specifically for Affiliate Staff and Board Members focused on building capacity at both the Affiliate and network level. Lunch is included.	Bruce K. Young, NAAEE; Sarah Bodor, NAAEE; Mike Brooks, Mike Brooks Consulting; Katie M Navin, Colorado Alliance for Environmental Education	Wednesday, October 12	8:30am	5:00pm	Workshop	in-person
Nurturing, Educating, Connecting: A Tour of Manzo Elementary's School Gardens	How did Manzo Elementary become the flagship for school gardens? Experience how a community-based grassroots effort became a program that fosters social-emotional growth; helps students reclaim their nutritional health; grows food, community, and cultural traditions; connects UA students with school gardens; and links students and educators with UA agrivoltaics research.	Carly Pierson, Community & School Garden Program	Wednesday, October 12	1:00pm	4:30pm	Workshop	in-person
The Road to NAAEE Higher Education Accreditation: A Map for Success	Maybe you've been debating about accrediting your college or university EE program... Here's a great opportunity to make some headway! We'll provide critical information including an in-depth review of standards, strategies for incorporating them into curriculum, sample assessments and models from faculty members who are accredited. Bring your laptops and documents to begin the process.	Rebecca L. Franzen, University of Wisconsin-Stevens Point, Wisconsin Center for Environmental Education; Billy Bennett, Kentucky Environmental Education Council; Patty Born, Hamline University School of Education; Howard Drossman, Catamount Center/TREE Semester; Lucy R. McClain, Shaver's Creek Environmental Center - Penn State University; Bora Simmons, National Project for Excellence in Environmental Education	Wednesday, October 12	1:00pm	4:30pm	Workshop	in-person
In-Person Concurrent Sessions—Thursday, October 13							
Being Strategic: Advancing Equity, Diversity, and Inclusion in Higher Education	Learn how Southern Oregon University's Environmental Education program is being strategic in preparing future EE leaders to create a just, diverse, equitable, and accessible field. From grants to strategic planning to self-assessments to marketing to program planning, we will share our triumphs, our challenges, and our lessons learned.	Teresa Coker, Southern Oregon University; Arielle Halpern, Southern Oregon University; Hannah Calloway	Thursday, October 13	8:30am	9:10am	Traditional Presentation	in-person
Bringing Global Stories of Climate Change to Tucson's High Schoolers	Explore a new high school program on global climate change that showcases international students sharing their personal stories. Using a unique media experience and participant response clickers, these stories put students in charge as they explore both the challenges and opportunities for mitigation and adaptation strategies.	Adam Kingery, Environmental Education Exchange; Jeremy Markowitz, Environmental Education Exchange	Thursday, October 13	8:30am	9:10am	Traditional Presentation	in-person

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Building a Statewide Climate Education Movement Through Community Informed, Youth-Led Policy Efforts	In 2022, the Maine Environmental Education Association advanced climate education efforts, building upon momentum from its 2021 Climate Education Summit. Centering youth and educators in these efforts, the campaign found tremendous success in both grassroots and policy spaces. Explore lessons learned centering justice and reimaging climate education through collective organizing.	Olivia Griset, Maine Environmental Education Association; Sinet Kroch, Maine Environmental Education Association; Deborah Paredes	Thursday, October 13	8:30am	9:10am	Traditional Presentation	in-person
EARTHDAY.ORG's Global Climate Literacy Campaign	EARTHDAY.ORG (EDO) is a nonprofit organization based in Washington, DC working to diversify, educate, and activate the environmental movement worldwide. This presentation study details the challenges and opportunities of EARTHDAY.ORG's global climate literacy campaign. We share how EDO leveraged its global networks to drive climate education policy and action worldwide.	Matthew Aruch, EARTHDAY.ORG; Meleine Yao, EARTHDAY.ORG	Thursday, October 13	8:30am	9:10am	Traditional Presentation	in-person
Exhibitor Showcase: Earth Education—An Alternative Approach to Environmental Learning	The Institute for Earth Education provides carefully crafted educational programs with specific outcomes in mind for learners of all ages: emotional connections with the natural world, key ecological understandings, and inspiration to live more lightly on our planet through personal action. Join us as we explore these programs and the philosophies behind them.	Colin Waite, Institute for Earth Education	Thursday, October 13	8:30am	9:10am	Traditional Presentation	in-person
Status and Needs of the Affiliate Network	Join Affiliate leaders to discuss the challenges and successes that are most important to your Affiliate! In this open space session, YOU will have the opportunity to suggest and manage conversation topics and working sessions to answer the question "How can we build the capacity of affiliate organizations?"	Bruce K. Young, NAAEE	Thursday, October 13	8:30am	9:10am	Traditional Presentation	in-person
Trends in State Policy for Environmental & Outdoor Learning	Across the United States, states are adopting innovative policies to break down barriers to access to environmental and outdoor learning. During this session, members of the Youth Outdoor Policy Partnership will share a report on policy trends from 2021, and highlight successful state policy initiatives and some promising ideas for the future.	Sarah Bodor, NAAEE; Robyn Paulekas, Meridian Institute	Thursday, October 13	8:30am	9:10am	Traditional Presentation	in-person
#PlantWildflowers and Protect Native Pollinators	Did you know there are more than 20,000 species of bees? Educators can help students appreciate and protect pollinators with fun activities like planting wildflowers. Learn about the #PlantWildflowers impact campaign surrounding the award-winning documentary film, My Garden of a Thousand Bees. Educational materials, native wildflower seeds, and outdoor activities provided.	Alex Pearson, HHMI Tangled Bank Studios	Thursday, October 13	8:30am	10:00am	Hands-on Presentation	in-person
Advancing a Diverse and Resilient Green Careers Sector	Examine how environmental STEM, sustainability, conservation education offers limited career exposure for populations that are disproportionately impacted by environmental justice issues. Panelists will share opportunities and remedies to enhance student pursuit of the field, including cultural competency, experiential work experience, and mentoring.	Rachel Bayer, Forest Service; Jerri Taylor, Sustainable Forestry Initiative; Brittany Jayroe, EcoRise	Thursday, October 13	8:30am	10:00am	Symposium	in-person
Empowering Student Change Makers through Data, Technology, and Student Innovation	Join EcoRise educators in a hands-on session to learn how to leverage your school building, data collection tools, technology, and community support to position students as change makers on their campus and in their community to address the sustainability and climate challenges most relevant to their lived experience.	Kristi Híbler-Luton, EcoRise; Brittany Jayroe, EcoRise	Thursday, October 13	8:30am	10:00am	Hands-on Presentation	in-person
Help Solve a Climate Change Problem With Behavior Change	Create climate solutions with behavior change. In this fun hands-on session, you'll pick an environmental problem, get tips on barriers and behavior change approaches to that problem, and the chance to brainstorm how to solve it. The approach can be used for middle- to high- school and adult learners alike.	Caroly Shumway, Center for Behavior and Climate; Emma DeRoy, Sierra Club Canada Foundation; Rebecca Edgecumbe	Thursday, October 13	8:30am	10:00am	Hands-on Presentation	in-person
Outdoor Learning Collaboratory: An Interactive Session on New Guidelines for Excellence	Share your ideas and experience regarding effective outdoor education—both in schoolyards and informal settings. This interactive workshop seeks to surface proven strategies and promising practices for engaging children in outdoor education, and is part of a year-long, nationwide initiative that will result in "Guidelines for Excellence in Outdoor Learning"	Karan Wood, Environmental Education Alliance; Bora Simmons, National Project for Excellence in Environmental Education	Thursday, October 13	8:30am	10:00am	Hands-on Presentation	in-person
Soil: Setting the Foundation for Learning	Connect learners to the environment through soil. If you are willing to get a little dirty, come and join me on an adventure to see how soil, and the fruits it sustains, can engage students in transformative environmental learning. Connection will be made to civic engagement and future space habitation.	Mabel Rivera	Thursday, October 13	8:30am	10:00am	Hands-on Presentation	in-person

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Take a Picture with Intention: Connecting Photographs to Environmental Concepts	My undergraduate students in Introductory Ecology/Environmental Science courses engage in a semester-long project to photograph examples of course concepts in their local ecosystems and communities. Making observations is a foundational science practice, and this activity gives students creative latitude to make personal connections between content-relevant vocabulary and its real-world applications.	Erica Tietjen, Nevada State College	Thursday, October 13	8:30am	10:00am	Hands-on Presentation	in-person
The Children Are Our Future...But Which Ones?: Equity in Conservation	Are the majority of your youth program's participants white? Passionate about wildlife? Come from money? Even one yes sounds like an equity issue to us. Co-facilitated with teens, this interactive session shares how to create and sustain equity in conservation education that champions diversity, cultural representation and enhances civic engagement.	Christopher Conner, Chicago Zoological Society Brookfield Zoo; Owen Chaidze, Chicago Zoological Society Brookfield Zoo; Noah Herscher, Chicago Zoological Society Brookfield Zoo; Samuel Trusty, Chicago Zoological Society Brookfield Zoo	Thursday, October 13	8:30am	10:00am	Hands-on Presentation	in-person
Building a New Learning Ecosystem	Innovative professional learning that draws bigger, new, and diverse audiences drives our programming. During the pandemic we have been adaptive, we have evolved to address learning deficits, and we have pivoted to get teachers and students outside. Join us for a look at 3 mini-case studies and discussion.	Laura Collard, Maryland Association for Environmental and Outdoor Education; Mary Westlund, Maryland Association of Environmental and Outdoor Education	Thursday, October 13	9:20am	10:00am	Traditional Presentation	in-person
Create Empowering, Learner-Centered Environmental Investigations Using NOAA's Latest Educator Guide	Looking for ways to create empowering, learner-centered environmental investigations that lead to informed action while improving environmental literacy? Come learn how the Educator's Guide to the Meaningful Watershed Educational Experience (MWEE) from the NOAA B-WET program can help! Explore some activities and receive a copy of the Educator's Guide.	Bronwen Rice, NOAA; Jaime Frungillo, NOAA Office of Education; Elise Trelegan, NOAA Chesapeake Bay Office; Timothy D Zimmerman, NOAA Office of Education	Thursday, October 13	9:20am	10:00am	Traditional Presentation	in-person
Evaluating Impact in EE: Learning from Five Years of ee360	This session will explore evaluating impact in the field of EE, using the evaluation of ee360 as an example. Attendees will leave the session with an understanding of findings from this major EE initiative, as well as ideas for ways to conceive of and evaluate impact for other EE programs.	Joe E. E Heimlich, COSI; Rebecca Kemper, COSI CRE; Laura 6304410017 Weiss, COSI CRE	Thursday, October 13	9:20am	10:00am	Traditional Presentation	in-person
Network Innovation: Youth & Young Professional Engagement Community of Practice	With many youth and young professionals actively engaged in movements for the climate and environment our NAAEE Affiliates should serve as an active place for young professional and youth engagement. In the northeast, our Affiliate organizations are striving to serve as relevant professional organizations and springboards for young professionals' energy and interests.	Kerri McAllister, Shelburne Farms	Thursday, October 13	9:20am	10:00am	Traditional Presentation	in-person
Preservice Teachers' Self-Efficacy About Teaching Environmental Education Using Literature	Preservice teachers at Florida A&M University participated in an EE collaboration with Florida PLT. Preservice implemented literature-based EE outdoor activities in PreK through fifth grade classes at University's Partnership School District. See how results from this research will inform future practice and help other HBCUs strengthen partnerships.	Cheron Davis, Florida A&M University; Martha C. Monroe, University of Florida; Robert Raze, St. Petersburg College; Kimberly J Davis, Florida A&M University Cooperative Extension	Thursday, October 13	9:20am	10:00am	Traditional Presentation	in-person
(Re)defining Roles and Responsibilities in Equitable, Inclusive Evaluation	Culturally responsive, equitable evaluation necessitates authentic engagement that effectively addresses power and privilege. How do we learn from—and fully embrace—the varied perspectives, experiences, and strengths within such collaborative evaluation processes? Together, let's unpack power dynamics to more equitably navigate our roles as program providers, participants, funders and evaluators.	Libby McCann, Antioch University New England; Karyl Askew, Karyl Askew Consulting, LLC.; Jean Chimbirima Kayira, Antioch University New England; Steven Braun, eeRISE LLC; Kathryn Stevenson, NC State University; Charlotte Clark, Duke Nicholas School of the Environment	Thursday, October 13	10:30am	11:10am	Roundtable Discussion	in-person
Co-Designing Justice: EE in the Context of Public Policy and Controversy	Asking the question "How do EE practitioners advance their DEIJA work in the face of 'anti-woke', anti-LGBTQ, etc legislation?", this session addresses the legacy and future of regressive, white-cis-male centered policies, and invites a dialogue about possibilities and practices for continuing to move anti-oppression work forward in EE organizations, curriculum, and communities.	Charissa Virginia Jones, OSU Extension Service -- Outdoor School; Talie Segel, Environmental Education of New Mexico	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
Examples and Evidence of What Works Best on School Fieldtrips	We studied over 400 single-day EE school fieldtrip programs for youth (ages 10-14) across the United States and have identified lessons about effective pedagogies; differential impacts on audiences from different socioeconomic contexts and racial compositions; and misalignment between planned approaches and implementation. We'll share these lessons in an interactive session.	Marc Stern, Virginia Tech; Robert B Powell, Clemson University; Troy Frenslley, University of North Carolina at Wilmington; Malia Pownall; Talia Jessica Schmitt, NatureBridge; Emily Thorpe, Virginia Tech	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person

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Experiential Learning in an Environmental Justice Courtroom Simulation	Attendees will participate in a re-enactment of an environmental justice case that students conducted in New Haven Superior Court. An environmental group blocked a utility company's attempt to restart an abandoned power plant. Participants will develop strategies, arguments, & testimony - and compare their ideas with the "trial" re-enacted by the students.	Jim Clifford, Exploring Climate / Exploring Justice	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
Exploring the NAAEE Affiliate Toolkit		Bruce K. Young, NAAEE	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
Facilitating Environmental Change in Urban Communities Through Community Schools	Florida Memorial University Environment Education Summer Institute and Everglades Learning Lab is a hands-on, inquiry-based institute aimed at enhancing educators' ability to understand the environment in South Florida and convey understanding, supportive attitudes, and problem-solving skills to their learners through interdisciplinary techniques. FMU is an HBCU in South Florida.	Donnie Hale, Florida Memorial University	Thursday, October 13	10:30am	11:10am	Roundtable Discussion	in-person
Fostering Sustainability Leadership through Museum Professionals	Museums and other informal education institutions play a critical role in promoting learning and action for sustainability. This presentation will describe a professional development program for museum professionals focused on empowering museums to undertake sustainability projects in their communities. We'll share lessons learned and promising strategies for building sustainability leadership.	Nicholas Weller, Arizona State University; Jeannie Colton, Arizona State University; Dean Frias, Arizona State University; Rae Ostman, Arizona State University	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
Growing School Food Forests: Teachers Perceptions after Short-term Professional Development	Through FGCU's STEM Institute, the FGCU Food Forest provides short-term professional development to the K-12 leaders of SWFL on permaculture principles. Join us to see how we are facilitating the implementation and understanding of sustainable agriculture in our local community.	Maya Frere, Florida Gulf Coast University; Marco Acosta, Florida Gulf Coast University; Heather Skaza Acosta, Florida Gulf Coast University	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
How Can Urban Agriculture Education Foster Youth Civic Engagement?	We will begin by discussing why civic engagement is a prerequisite for sustainable development. Presenters will review real-life examples of urban agriculture education programs that enhance youth civic engagement in New York City. The audience will exchange practical and conceptual ideas for civic engagement initiatives in environmental education programs.	Alex Kudryavtsev, Cornell University; Raymond Pultinas, James Baldwin Outdoor Learning Center; Chrissy Word, City Parks Foundation; Shari Rose, City Parks Foundation; Manuela Zamora, NY Sun Works; Megan Nordgrén, NY Sun Works; Gabrielle Mosquera, Teens for Food Justice; Renae Cairns, Teens for Food Justice; Natalie Kelly, Cornell University	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
Should I say something? Navigating climate change conversations with youth	Young people hear about climate change every day. Sometimes they feel angry or helpless. Sometimes they feel nothing at all. In this roundtable, you'll learn how to use our new resources, co-developed with Psychologist Inés Lopez, to start conversations on climate change and help youth develop a positive mindset.	Mariane Bolla, Ducks Unlimited Canada; Kate Belmore, Ducks Unlimited Canada; Jessica Needham, Ducks Unlimited Canada	Thursday, October 13	10:30am	11:10am	Roundtable Discussion	in-person
Strengthening Environmental Education Connections in the Asia-Pacific Region Through GEEP-APRC	Partnerships are key to promoting environmental education. Thus, GEEP established the APRC in Taiwan as a network center in Southeast Asia. APRC has been holding meetings with consultants from 8 countries regularly and organizing numerous international environmental education activities in the hope to make environmental education a greater priority.	Tzuchau Chang	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
The Pyramid of Engagement: Developing Youth from Curiosity to Careers	Forest Service partner Wilderness Inquiry uses a pyramid of engagement model from inspiring confidence, curiosity, and wonder through green careers. We will discuss this model in the urban setting, and the role of the Forest Service in moving youth from curiosity to employment.	Susan Cox, USDA Forest Service; Barbara McGuinness, USDA Forest Service	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
What's Wrong with the Polar Bear?	Melting ice caps. A forest ablaze. Solar panels. How do you visually showcase climate change? What considerations should you make for varying audiences and intentions? This overview of the latest climate change visual communication research will provide you with resources and suggestions to help you choose the most effective image.	Elisa Kondo Rudolph, University of Illinois at Chicago	Thursday, October 13	10:30am	11:10am	Traditional Presentation	in-person
Wild Becomings: Engaging with Wild Pedagogy Touchstones	In three widely varied educational settings during the pandemic, Wild Pedagogies Touchstones were introduced into indoor, outdoor, and online practice to explore the challenges in rethinking teaching and learning with(in) nature. The interactive roundtable discussion proposed fits perfectly with the Connecting with Nature theme.	Polly L. Knowlton Cockett, Grassroots Ethnecological Association; Vivian Wood-Alexander, Lakehead Public Schools	Thursday, October 13	10:30am	11:10am	Roundtable Discussion	in-person
2022 Status and Needs of Nonformal and Formal (K-12) Environmental Educators Across Pennsylvania	The difference between a resident that is environmentally passive and literate is their educated understanding natural systems. That group is shaped by educators. The 2022 Pennsylvania EE Survey aims to determine how well non-formal and formal educators understand the MWEE framework, areas of need, and preferred methods of training.	Michella Salvitti, Millersville University; Nanette Marcum-Dietrich, Millersville University of Pennsylvania	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person

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Achieving Environmental Literacy: An Evidence-Based Model for Public Schools	Aiming to shift the paradigm of institutional public school systems, the researcher presents a Doctoral dissertation in Educational Leadership from Wilmington University, Delaware, addressing a problem of practice that exists in US public schools: students are not graduating high school as environmentally literate members of society.	Todd Klawinski, Caesar Rodney School District	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
An Awareness About Lead Exposure Effects Among High School Students	Lead exposure has been a serious environmental and public health problem all over the world over the years. Even though Lead exposure can affect anyone, children are more vulnerable to the effects of Lead since their organs are still growing and developing (Dong, 2019; Cohen & Amon, 2012)	Adejoke Christianah Olufemi, Tshwane University of Technology, Pretoria, South Africa; Andile Mji, Tshwane University of Technology, Pretoria, South Africa; Murembiwa Stanley Mukhola, Tshwane University of Technology, Pretoria, South Africa	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Building Environmental Youth Leadership Through Louisiana 4-H's Wetland Ambassadors Team	The Louisiana 4-H Wetland Ambassadors Team is an initiative launched in 2019 that seeks to develop tomorrow's wetland conservation leaders from high-school youth across the state. This session communicates the outcomes of this project and provides lessons learned as the program continues to grow.	Catherine Fox, Louisiana 4-H Youth Wetlands Program; Brian Gautreau, LSU AgCenter	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Building Healthy School Community and Future Through Partnership	Community health programming faces two key issues: a lack of access to quality food and nutrition education and the creation of successful organizational partnerships in order to leverage resources. Learn how to address these issues through case studies in order to grow your organization's potential in community engagement.	Angelika Keene, UF/IFAS Extension Brevard County; Andrea Lazzari, UF/IFAS Extension Brevard County	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Children's Forest Network as a Model for Layered Programming	Georgia Mountains Children's Forest Network's, highly successful model of engaging youth in elementary, middle, high school, and post high school, as well as engaging educators, was born from the question, "how can we work smarter and not harder to remove barriers for underserved students to lead as lifelong environmental stewards?"	Kelsey McNicholas, Georgia Mountains Children's Forest Network	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Climate Empowerment: CLEAN's Climate Education Opportunities for All Learners	The Climate Literacy and Energy Awareness Network (CLEAN) is preparing tomorrow's scientists, decision makers, and citizens to address the societal impacts of a changing climate. We will share evidence-based best practices in providing accurate, up to date information to learners and empowering them to make climate-smart decisions.	Gina Fiorile, Cooperative Institute for Research in Environmental Sciences (CIRES)	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Dr. Harold R. Hungerford's Molokai Legacy	As a verb, influence means "to shape or give direction to". Dr. Harold R. Hungerford's influence on our rural island home of Molokai has been far-reaching and life-changing. Our poster is comprised of Molokai youth to whom Dr. Hungerford's curriculum gave a voice and the confidence to use it.	Kaehuiki Linker Meyers-Moss, Aka'ula School; Dara Lukonen, Aka'ula School	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Engaging Rural and Urban Youth Through Deliberative Climate Change Forums	Come and learn the similarities and differences regarding perceptions of climate change between rural and urban high school students. This deliberation forum is a wonderful approach to engaging different perspectives and building collective social, environmental, and sustainable strategies to tackle the effects of climate change.	Cristhian Restrepo, University of Missouri; Miles Bradford; Christine Jie Li, University of Missouri	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Enhancing Perspectives Within Environmental Education	The educational research being presented utilizes enhanced perspective taking on climate change. The model used in this research focuses on experiential, behavioral, cultural, and social perspectives from individual and group worldviews. This work provides learners a space to engage, construct moral contexts, and potentially shift from etic to emic perspectives.	Eric Nolan, Cal State University, East Bay	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Factors Influencing Chinese Pre-Service Teachers' Self-Efficacy in Climate Change Learning	Pre-service teachers are agents of change to educate students about climate change among Chinese colleges and efforts to alleviate its devastating effects. We attempted to study factors influencing and associating with their self-efficacy in climate change education, such as hope, education, prior knowledge and experience, and parents' education levels.	Feng Zhao, Central China Normal University; Christine Jie Li, University of Missouri	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
GeoPATHS: A High School Intervention to Promote Urban Environmental Justice	This project presents the development and evaluation of an intervention to enhance urban minoritized youth's access to environmental science. We integrate innovations in science education, notably culturally relevant pedagogy, socioscientific issues, place-based education and critical environmental agency, to empower students to use the tools of science to create social change.	Lisa Marco-Bujosa, Villanova University; Steven Goldsmith, Dept of Geography, Villanova University; Kabindra Shakya, Villanova University	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person

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Hands-On Elementary Science in a Math and Reading Focused World	Pandemic learning losses and standardized testing have decreased science instructional time in elementary classrooms. Learn how research informed the development of two successful, innovative programs that integrate place-based ecology with language arts and math to improve student excitement and learning.	Ryan Nathaniel-Thomas Pemberton, Asombro Institute for Science Education	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Improved Water in an Urban Slum: Role of Environmental Education	Most women involved in ensuring availability of water at household level do not know the importance of safe storage and filtration on water quality. Provision of educational interventions will play a pivotal role in ensuring provision of safe water at homes.	Oyewale Morakinyo, Tshwane University of Technology, Pretoria; Murembiwa Stanley Mukhola, Tshwane University of Technology, Pretoria, South Africa	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Increasing Community Access Using a Bicycle and Pedestrian Focused Approach	As urbanization increases, city life is becoming a reality. While cities create opportunities for healthy lifestyles, they can also adversely impact health. The Placemaking approach allows communities to make their environment healthier, happier, and socially connected while positively impacting green space, access, diversity, and the local economy.	Angelika Keene, UF/IFAS Extension Brevard County	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Informal Learning Using Virtual Reality Glasses at a Local Park	This study compared effects of a virtual reality trail tour versus a walking trail tour with a map and a guided walking tour with a pamphlet and map. 120 participants (40 in each group) took a pre/post survey to determine their knowledge, self-efficacy, cognitive load, and perceived enjoyment and usefulness.	Jeanine Huss, Western Kentucky University	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Invertebrate Heroes and Villains: Exploring Science Education Through Comic Books	Linking culture to science connects people of all ages, backgrounds, and abilities to nature. Using comic books, educators can address numerous subjects around insects in culture. Drawing on experiences in science, education, and comic fandom, this poster explores how educators can harness popular culture to shift negative attitudes towards invertebrates.	Karyn Light-Gibson, Miami University of Ohio	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Our Climate Our Future Live	Action for the Climate Emergency offers live climate education assemblies that cover all the basics of climate science with a focus on justice and how marginalized communities and young people are disproportionately affected by the crisis. The program culminates in a CTA for youth to register to vote and join an Action Team.	Ashley Young, Action for the Climate Emergency	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Outcomes of a Novel Two-Day Program on South African Youth	We will discuss the findings from the first cycle of an evaluation of a novel, two-day immersive marine education program for underserved 7th graders in South Africa. Sharing impacts of the first cycle of an adaptive management framework, as the organization seeks to learn from evidence to enhance success.	Hannah Bell; Troy Frenseley, University of North Carolina at Wilmington	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Responsible Stewardship of 4-H Shooting Sports Program Assets	Environmental educators conducting programs in shooting sports and other specialized topics often acquire tens-of-thousands of dollars' worth of equipment for instructional use. Tracking, storage, and proper maintenance is critical to equipment longevity. Learn about a low-cost, low-maintenance system implemented by UF/IFAS Extension Brevard County 4-H to properly manage this equipment.	Andrea Lazzari, UF/IFAS Extension Brevard County	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Shared Waters: An Upstream-Downstream Collaborative	This collaborative project geographically spans the Chesapeake Bay Watershed. It systematically impacts students through teacher professional development and classroom Meaningful Watershed Educational Experience (MWEE) implementation, while simultaneously training the next generation of teachers by embedding MWEE instruction into undergraduate teacher education programs at Millersville University of Pennsylvania and Virginia Wesleyan University.	Abdulsalami Ibrahim, Millersville University of PA; Nanette Marcum-Dietrich; William McConnell, Virginia Wesleyan University	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
The Effectiveness of EEPs in Enhancing Student's Knowledge Towards Nature Conservation	Outdoor nature learning programs are growing in importance because they allow children to gain knowledge and positive attitudes towards the environment. The research intends to present the result of analyzing and evaluating to what extent does the Nature Knights Program helps in enhancing school students' awareness, and attitudes towards nature in protected areas.	Raed abu Hayyaneh, University of Calgary	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
The Forest as a Scientific Laboratory: a Teaching Experience	We report about an experimental project aiming at introducing high school students to forests' knowledge and management. The project involved the use of instrumentation, the elaboration of data, the ability in imagining, designing and conducting an experiment, in a multidisciplinary approach.	Antonio Raschi, CNR- Institute for Bioeconomy	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person

2022 NAAEE Conference Preliminary Schedule: In-Person Concurrent Sessions

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Toward Abolitionist Place-Based Environmental Education: An Interview Study	Learning in nature and in local communities is often associated with joy, exploration, freedom, and relevance. If we center environmental education in antiracism and other justice-oriented practices, can teaching outside be a form of abolitionist teaching (Love, 2019)?	Dani Toma-Harold, Elon University; Scott Morrison, Elon University	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Tree Campus Project: How Campuses Can Serve as Living Labs	This poster showcases how a Boise State University service learning class achieved national recognition as a Tree Campus Higher Education Institution. The project illustrates how college campuses can serve as living laboratories for students to address local environmental challenges, green the campus, and educate and involve the broader campus community.	Mari Rice, Boise State University	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
Uncovering the Impacts of EIW on Youth's Perceptions of Local Marine Issues	Museums and aquariums provide a good environment to study how EIW constructed by previous knowledge, and culture, affect learning experience concerning complex environmental issues, and the interpretation or awareness of these issues. This project targets adolescents who visit museums and aquariums internationally seeing how EIW affects their learning of local marine issues	Shu-Min Tsai, Oregon State University	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
USTRIVE: Incorporating SocioScientific Issues and Social Justice into Environmental Science	The USTRIVE project was developed to foster STEM learning through professional development workshops and professional learning communities to support teachers' integration of SocioScientific Issues (SSI) and social justice in their STEM classrooms. Environmental science was the most common SSI topic, indicating educational value and opportunities.	Becky Mathers-Lowery, Arcadia University; Lisa Marco-Bujosa, Villanova University	Thursday, October 13	12:30pm	2:00pm	Poster Presentation	in-person
EE in Teacher Preparation Programs	For EE to become an integral part of the school experience for PreK-12 students, classroom teachers must understand its importance and value and be able to either facilitate it themselves or connect with community resources. This discussion will focus on challenges and successes in combining EE with teacher preparation programs.	Colin Waite, Institute for Earth Education; Kristin Gunckel, The University of Arizona	Thursday, October 13	2:15pm	2:55pm	Roundtable Discussion	in-person
EE Leadership Through AmeriCorps: The National Service Perspective	Join us to find out how AmeriCorps members can be leaders for EE in your community. This session will discuss the many ways national service can create a better tomorrow.	Ashley Mike, KEEC; Katie M Navin, Colorado Alliance for Environmental Education; Billy Bennett, Kentucky Environmental Education Council; Julia Gerwe, Kentucky Environmental Education Council; Julia Maugans, Lexington-Fayette Urban County Government	Thursday, October 13	2:15pm	2:55pm	Traditional Presentation	in-person
Fostering Partnerships for Out-of-School Time Meaningful Watershed Educational Experiences (MWEEs)	Designing and implementing environmental education in out-of-school-time (OST) contexts is complex. Learn about how NOAA and NAAEE's Watershed STEM Partnership Grants program sought to maximize local partnerships between environmental education providers and 21st Community Learning Centers and leverage opportunities to implement Meaningful Watershed Educational Experiences (MWEEs) in OST settings.	Bronwen Rice, NOAA; T'Noya Thompson, NAAEE; Sara Greller, Education Development Center; Erin Stafford, Education Development Center (EDC); Jennifer Jocz, Education Development Center; Timothy D Zimmerman, NOAA Office of Education	Thursday, October 13	2:15pm	2:55pm	Traditional Presentation	in-person
Moving From Deliberation to Civic Action	Deliberative forums provide community members an opportunity to consider environmental issues touching their lives and communities. Forums often result in lists of proposed individual and collective actions to address the issue. But, where does deliberation go next? How can we, as environmental educators, facilitate a forum to action process?	Ileana Marin, Charles F. Kettering Foundation; Christine Jie Li, University of Missouri; Martha C. Monroe, University of Florida; Laura Downey, Kansas Association for Conservation and Environmental Education (KACEE); Bora Simmons, National Project for Excellence in Environmental Education	Thursday, October 13	2:15pm	2:55pm	Traditional Presentation	in-person
"Diving" into Environmental Justice Issues with Fun, Interactive Lessons	Environmental justice is now common vernacular, yet many educators are uncomfortable teaching about it. Project WET specializes in lessons about water—one of the five main pillars of environmental justice. We will demonstrate how you can start a conversation with students using fun, hands-on activities to discuss EJ issues.	Julia Beck, Project Wet; Elizabeth Witte, Project Wet	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
Climate Empowerment: Effective Practices Toward Climate Action and Resilience Building	As the climate crisis intensifies the impacts of natural hazards, we must build toward a resilient future for everyone, especially the most vulnerable. Learn about innovative climate action projects across the country funded by the NOAA Environmental Literacy Program that empower youth to take action through education and civic engagement.	Gina Fiorile, Cooperative Institute for Research in Environmental Sciences (CIRES); Sarah E Schoedinger, NOAA Office of Education; Katya Anna Schloesser, CIRES, CU Boulder; Jen Kretzer, The Wild Center; Ethan Lowenstein; Abby Randall, EcoRise; Heather Sioux, The Resilient Schools Consortium (RiSC) / National Wildlife Federation; Sonia Vedral, Program for Local Adaptation to Climate Effects: Sea-Level Rise	Thursday, October 13	2:15pm	3:45pm	Symposium	in-person

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Create Climate Art. Learning to Integrate Art Into Climate Science	Creativity is the foundation for advancement in science! Join Artist Boat as we explore how to integrate interpretive art into your curriculum, specifically when it comes to HOT topics like climate change. Learn how you, your participants, and students can transform into artists and climate scientists in the classroom.	Karla Klay, Artist Boat	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
Developing "Ways of Being" to Advance Equity and Inclusion in Your Organization	At MEEA we have worked collaboratively to generate and implement "Ways of Being" that guide how we show up in our community to do our work with equity at the center. We will share them, how they were created, and an equity concentric circles framework we use to guide the work of our organization.	Olivia Griset, Maine Environmental Education Association; Sinet Kroch, Maine Environmental Education Association; Amara Precious Ifeji, Maine Environmental Education Association; Anna Sommo	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
Dovetailing Environmental Education and Social and Emotional Learning	The COVID-19 pandemic has brought with it lasting mental health fallout, with Black and Brown communities affected most acutely. Connecting with intention through nature is the medicine needed in this moment. In this session participants will examine EE and SEL through the lens of Self-Determination Theory and acquire skills and knowledge for implementation.	Moses Thompson, UA Community and School Garden Program	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
Fostering Passion and Competency in Youth to Engage in Environmental Policy	AZ Project WET will host a panel including youth and policy makers to discuss youth engagement in policy and environmental civic action. The discussion will focus on what motivates youth to engage in environmental issues and how to best approach policy makers to have real climate action result from their efforts.	Joshua Ruddick; Holly Thomas-Hilburn, Arizona Project WET, University of Arizona	Thursday, October 13	2:15pm	3:45pm	Symposium	in-person
Nature Journaling to Explore the Sonoran Desert Ecology	Come and explore the use of Nature Journals in an outdoor 'sit spot'. A sit spot is simply a location visited to cultivate awareness, expand senses, and study patterns of local plants and animals. We will take time to investigate a local sit spot and practice some nature journal techniques.	Molina Walters, Arizona State University; Cyna Stehr, Arizona State University	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
Ninth Annual Environmental Education Evaluation Clinic	Interested in learning more about program evaluation? Bring your questions to this interactive workshop, which will be offered both in-person and virtually. We will provide a brief overview of the basics of program evaluation, then you will have the opportunity to join small groups/breakout rooms to ask any questions you have about evaluation.	Noelle Wyman Roth; Kathryn Stevenson, NC State University; Karyl Askew, Karyl Askew Consulting, LLC.; Steven Braun, eeRISE LLC; David Chase, DRC Consulting; Louise Chawla, University of Colorado Boulder; Charlotte Clark, Duke Nicholas School of the Environment; Lauren Gibson, North Carolina State University; Jean Chimbirima Kayira, Antioch University New England; Kathayoon Khalil; Thomas J. Marcinkowski, Florida Institute of Technology; Libby McCann, Antioch University New England; Gabby Salazar, University of Florida	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
Teaching K-3 Core Subjects Through an Environmental Lens	Ecology themes can frame interdisciplinary lessons in the K-3 classroom that build students' skills in numeracy, literacy, problem solving, scientific inquiry, and communication. Discover ways to cultivate environmental stewardship while also building content knowledge in core subject areas. Engage in role-playing simulations, mathematical modeling, problem-solving challenges, interactive stories and more.	Dianne McKee, Arizona State University	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
What Are You For? Value Statements That Make A Difference	Values, along with mission and vision, drive our EE organizations' work and guide our priorities. Unfortunately, published organizational value statements often consist of trite phrases that neither inspire nor build support. Explore ways to identify and articulate values that express what your organization stands for and the changes you want to achieve.	Adrian Ayson, eeMatters Consulting	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	in-person
Accelerating Climate Education Policy	We can't meet or sustain our climate goals without a climate literate society, which requires a dramatic scale-up in climate change education and sustainable school operations. Come hear about efforts to advance bold climate education policies at every scale and share your ideas for advancing this movement together!	Sarah Bodor, NAAEE; Judy A. Braus, NAAEE	Thursday, October 13	3:05pm	3:45pm	Traditional Presentation	in-person
Advancing Environmental Education: Outreach That Engages, Excites, and Explores!	Experience environmental outreach education at its best! The Environmental Education Exchange (E3) strives to engage participants with different learning styles through interactive games, physical activity, and the captivating use of multimedia in our K-12 and adult presentations. You'll leave with great ideas to promote environmental awareness in your community!	Debbie Gevartzman, Environmental Education Exchange; Owen Daly-Forsyth, Environmental Education Exchange; Neil Markowitz, Environmental Education Exchange	Thursday, October 13	3:05pm	3:45pm	Traditional Presentation	in-person

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Bringing it Home: Partnering for Place-Centered Environmental Learning	A District and a Museum walked into a...partnership. The Flowing Wells Unified School District and Arizona-Sonora Desert Museum are co-designing and implementing place-based STEM lessons for elementary grades. The session will focus on sustaining authentic collaboration, benefits to formal and informal educators, barriers to overcome, and student outcomes.	Catherine Bartlett, Arizona-Sonora Desert Museum; Robin Kropp, Arizona-Sonora Desert Museum; Anna Heyer, Flowing Wells	Thursday, October 13	3:05pm	3:45pm	Traditional Presentation	in-person
Eco-Schools for Student-Centered Community Change	Do you want to give your students a voice to make meaningful change in their school and community? Do you want to empower your students to view issues from multiple viewpoints, be civically engaged, and be active leaders? Come about how the Eco-School program can help.	Lisa Ristuccia, Arizona Association for Environmental Education	Thursday, October 13	3:05pm	3:45pm	Traditional Presentation	in-person
Engaging Youth Across Cultures: Designing Leadership Opportunities for Impact	placeholder	Madeline Halvey; Nina Hamilton, NAAEE	Thursday, October 13	3:05pm	3:45pm	Roundtable Discussion	in-person
Exhibitor Showcase: The Desert is Beautiful—Busting Myths and Celebrating Place	Join Environmental Educators from Pima County Natural Resources, Parks and Recreation to explore our unique desert ecology and enjoy interactive excerpts from our programming for youth and adults. The Sonoran Desert is a biodiversity hotspot, and we share how we inspire wonder, understanding, and connection to our desert home among our participants.	Melissa Mundt, Pima County Natural Resources, Parks and Recreation; Christine Hoekenga, Pima County Natural Resources, Parks and Recreation	Thursday, October 13	3:05pm	3:45pm	Traditional Presentation	in-person
Prioritizing DEI: How We Created a Screener for Program Development	Motivated by our desire to formally incorporate diversity, equity, and inclusion in program development, our nonprofit created a screener tool with nine questions that fulfilled our most essential needs. We will share our tool and lead a discussion about how it can be adapted for other organizations.	Kelly Steinberg, Asombro Institute for Science Education; Ryan Nathaniel-Thomas Pemberton, Asombro Institute for Science Education	Thursday, October 13	3:05pm	3:45pm	Roundtable Discussion	in-person
Students as Stakeholders: Engaging Youth Voice in Environmental Civic Action	Creating space for youth to share their thoughts and feelings can be challenging, especially when engaging in complex environmental topics. During this session we will explore how empathy mapping can be a tool to engage and amplify the voices of young people.	Alyssa McConkey, Earth Force; Taylor Ruffin, Earth Force; Sarah Jennings, Earth Force; Raizha Yurivilica Delgado, Earth Force	Thursday, October 13	3:05pm	3:45pm	Roundtable Discussion	in-person
Youth-focused community and citizen science-Connecting to Community	How can citizen science facilitate forms of equitable environmental education that are connected to community, and what does current research tell us about this relationship? In this roundtable, participants will discuss case studies that examine the benefits of engaging youth in place-based citizen science connected to community partners.	Margaret (Peggy) Harte, University of California, Davis Center for Community and Citizen Science; Heidi Ballard, School of Education, Univ. of California; Chris Jadhav, University of California, Davis - School of Education	Thursday, October 13	3:05pm	3:45pm	Roundtable Discussion	in-person
A Curriculum Model for Adding Early Childhood Environmental Education (ECE) in Preservice Undergraduate Programs	This session will delineate how the essential underpinnings of environmental education are addressed in a baccalaureate program in early childhood education at a public university. Purposes of new courses, reading materials, learning activities, and assignments of the curriculum model will be new information and add richness to the discussions.	Yash Bhagwanji, Florida Atlantic University	Thursday, October 13	4:00pm	4:40pm	Traditional Presentation	in-person
Building Connections Between NOAA and Environmental Educators	From fire weather to fish migration patterns, NOAA Education keeps people informed and engaged in our planet's dynamic environment. Join us to learn how our resources, educator and student opportunities, and competitive funding for education projects connect to environmental education.	Andrea Sassard, NOAA; Christos Michalopoulos, NOAA	Thursday, October 13	4:00pm	4:40pm	Traditional Presentation	in-person
Connecting College Students to Nature: Nature-Based Learning at an Urban Community College	Community college students often do not have the opportunity to participate in nature-based experiences. This session will introduce participants to ways that an urban community college in New York City is implementing nature-based learning experiences directly into the curriculum. Specific examples, student feedback, and recommendations for inclusion will be shared.	Nicole Kras, Guttman Community College	Thursday, October 13	4:00pm	4:40pm	Traditional Presentation	in-person
Exhibitor Showcase: Learn with The Climate Initiative—Free Community-Based Climate Modules	Come walk through exciting, free climate change learning modules and Climate Action Toolkits. Engage your students in hands-on activities. Empower them to start powerful conversations in their communities, and watch them become change agents with climate action projects. Formal and informal educators are welcome. All modules are linked to the NGSS and the SDGs.	Maria Claudia Schubert-Fontes, The Climate Initiative; Angela Zhong, The Climate Initiative	Thursday, October 13	4:00pm	4:40pm	Traditional Presentation	in-person
GCST1970 Environmental Justice and Nature Immersion: A Collaborative Partnership	GCST1970 is a nature-based, credit-bearing program for urban college and high school students, in partnership with the YMCA and Three Rivers Park District. This collaboration brings under-represented students to a wilderness camp to engage in environmental justice topics and issues of equity, access, and inclusion in nature and outdoor spaces.	Ana Munro, North Hennepin Community College	Thursday, October 13	4:00pm	4:40pm	Traditional Presentation	in-person

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Marine Science, Climate Change & the NGSS: Professional Development for Teachers	Climate change and marine science are often unfamiliar topics for K-8 teachers. Through a partnership with a college and nonprofit we revised a marine science curriculum to align with NGSS and climate change standards. We created teacher workshops and a website with resources for teachers, nonformal educators, and college faculty.	Lauren Madden, The College of New Jersey; Graceanne Taylor, Save Barnegat Bay	Thursday, October 13	4:00pm	4:40pm	Traditional Presentation	in-person
Navigating Stakeholder Partnerships to Promote Civic Engagement and Meaningful Learning	Join CEE-Change fellows as they share how each convenes diverse stakeholders (students, teachers, community partners) to facilitate civic-environmental actions. Mini presentations will be followed by an active discussion about: 1) navigating needs/aspirations of communities and fellows' organizations to identify action projects; 2) tools/frameworks used; and 3) takeaways.	Eileen Boekestein, Michigan Department of Environment, Great Lakes, and Energy; Laura Marie Cisneros, University of Connecticut; Jenna Hoover, Chino Basin Water Conservation District; Kimi Waite, NAAEE CEE Change Fellow; Danny Ray Woolums, Lexington-Fayette Urban County Government	Thursday, October 13	4:00pm	4:40pm	Traditional Presentation	in-person
Affiliate Heads Together	Heads together is a powerful team-to-team problem solving activity in which teams are paired with one another to gain and provide insights in the challenges they each face. Bring a challenge with you and we will pair you with another Affiliate team to brainstorm, share, and learn.	Bruce K. Young, NAAEE	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	in-person
Everyday Wild Animals: How Common Wildlife Connects Us to Place	The small things in nature--the creatures we hold and watch open our hearts. Discover how everyday wildlife ignites compassion and moves us towards stewardship. Learn to talk international bird or spy on a bug. We have everything we need in our neighborhood to fall in love with this world.	Susie Spokol, The Harris Center for Conservation Education	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	in-person
Looking Forward: Issues and Cross-Cutting Questions from EE Practitioner Perspectives	The second of two collaborative workshops at the research symposium and main conference brings together EE researchers and practitioners to collaboratively envision the future of EE research. What are the big questions we should tackle? How do we better connect research and practice? Where do we go from here?	Danielle Frank Lawson, The Pennsylvania State University; Roberta Howard Hunter, Michigan State University; Marijke Hecht, The Ohio State University	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	in-person
Making Meaningful Organizational Change for Equity and Cultural Responsiveness	To reach a goal of equitable, culturally responsive environmental education and environmental literacy for all, committed individuals must push their organizations to enact change. In this session, we explore how the Cultural Responsiveness Self-Evaluation Tool can be used to demystify organizational change related to equity, diversity, and inclusion.	Kristi Backe, OSU Extension Outdoor School; Charissa Virginia Jones, OSU Extension Service—Outdoor School; Steven Braun, eeRISE LLC; Amy E Hoffman, OSU Extension Outdoor School	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	in-person
NOAA V-WET: Connecting students with coastal researchers using 360 technology	NOAA Virtual Watershed Education and Training (V-WET) connects students with research occurring along the Gulf coast in an engaging format to increase environmental literacy and STEM skills. Join us to learn more about this exciting collaboration to bring research laboratories into the classroom via 360 technology and experience it yourself!	Cindy Wilems, Galveston Bay Foundation; Mariah Waters, Galveston Bay Foundation	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	in-person
PLT's Forest Literacy Framework: Growing Forest Literate Generations	Learn how Project Learning Tree's Forest Literacy Framework (FLF) is driving educational work across the country. PLT's new resource charts a pathway for those who educate young people, create education policy or curricula, or advocate for forests. During this session, participants will hear firsthand experiences implementing the FLF through an interactive facilitated panel discussion.	Danika Strecko, Sustainable Forestry Initiative; Rachel Bayer, Forest Service; Heidi McAllister, US Forest Service; Jacey Tosh, Texas A&M Forest Service; Susan Cox, USDA Forest Service	Thursday, October 13	4:00pm	5:30pm	Symposium	in-person
Point. Click. Engage. Transform	Join the Udall Foundation's Parks in Focus® program to learn how they use digital photography as a tool for environmental education with youth in Tucson. Bring your own camera or borrow one from us as we will be going outside to explore and shoot. No previous photography experience required.	Mike Kruse, Udall Foundation; Mely Bohlman, Udall Foundation; Bret Muter, Udall Foundation Parks in Focus Program; Jacob Brainerd, Imago Dei Middle School	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	in-person
Using Universal Design For Learning For Inclusive EE Programs	Universal Design for Learning (UDL) is a framework to guide the design of learning to be accessible and challenging for all. Sample activities from EENC and AEOE's new online course bridging the principles of UDL and EE, growing pedagogical practices to be more welcoming, inclusive, and accessible for all learners.	Michelle Pearce, Environmental Educators of North Carolina; Michelle Silvers, University of Arizona; Lauren Pyle, Environmental Educators of North Carolina; Estrella Risinger, Association for Environmental & Outdoor Education	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	in-person
A New Framework for Building Youth Agency in the Anthropocene	We live in the Anthropocene where human impact is significantly changing Earth's systems. This presentation suggests a new framework developed for the OECD PISA 2025 Assessment that examines what is crucial for youth to build agency that will help them address critical issues of climate, biodiversity, and sustainability.	Martha C. Monroe, University of Florida; Peta White, Deakin University; Chris Eames, University of Waikato; Nicole Ardoin, Stanford University	Thursday, October 13	4:50pm	5:30pm	Traditional Presentation	in-person

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Civic Engagement at Every Age: Healing our Planet and Democracy	To heal our planet we need to heal our society; the reverse holds equally true. Mass Audubon is infusing civic engagement and equity work throughout our programming, from preschool to afterschool to senior classes. This workshop will illustrate what this looks like, and provide space to exchange ideas and questions.	Jennifer Feller, Mass Audubon	Thursday, October 13	4:50pm	5:30pm	Traditional Presentation	in-person
Cultivating cooperative relationships for a more sustainable future	Just as the underground mycelium network connects and supports plants in the forest, the Center for Education Design, Evaluation and Research nourishes sustainability education by sharing resources and building a network of cooperative relationships. Learn how this University of Michigan-based hub supports programs across the Midwest and the Eastern Seaboard.	Krysten Dorfman, University of Michigan; Emily Schaller, University of Michigan; Cathy Hearn, University of Michigan, Center for Education Design, Evaluation, and Research	Thursday, October 13	4:50pm	5:30pm	Traditional Presentation	in-person
Exhibitor Showcase: Engage Your Students to Make Unseen Discoveries Through Biocoustics Monitoring	What insights about species diversity and habitat health can be gained by studying the sounds of birds, bats, frogs, and other vocal animals? What are we missing when not listening? Learn how wildlife recorders and detectors can be used in an educational setting to gather data, generate (and answer) important questions, and inspire future conservationists.	Alexandra Donargo, Wildlife Acoustics	Thursday, October 13	4:50pm	5:30pm	Traditional Presentation	in-person
Honoring Indigenous Wisdom in teaching Western Scientific Environmental Programs	In this session, the audience will learn about relationships the Sandia Mountain Natural History Center (SMNHC) has created with school districts and tribal leadership to create programs that reflect both the Western scientific perspective for environmental education and Indigenous Wisdom and beliefs.	Vanessa Barela, Sandia Mountain Natural History Center	Thursday, October 13	4:50pm	5:30pm	Traditional Presentation	in-person
Mapping the State of K–12 Environmental Education, Climate, and Equity	Across the country, thousands of programs are dedicated to environmental education, yet we lack the essential data to truly understand the state of the movement. Learn how Gen:Thrive, NAAEE and State Affiliates are mapping the field and utilizing shared technology tools to foster alliances, reveal gaps and accelerate climate justice.	Gina LaMotte, EcoRise	Thursday, October 13	4:50pm	5:30pm	Traditional Presentation	in-person
Promising Practices in Higher Education	How does teaching environmental education look in different higher education classrooms? The presenters, representing a diverse group of NAAEE-accredited higher education institutions, will highlight what seems to work in their programs by offering specific examples, course syllabi, and assignment descriptions that connect their work to the NAAEE Guidelines for Excellence.	Rebecca L. Franzen, University of Wisconsin-Stevens Point, Wisconsin Center for Environmental Education; Billy Bennett, Kentucky Environmental Education Council; Patty Born, Hamline University School of Education; Howard Drossman, Catamount Center/TREE Semester; Lucy R. McClain, Shaver's Creek Environmental Center - Penn State University; Bora Simmons, National Project for Excellence in Environmental Education	Thursday, October 13	4:50pm	5:30pm	Traditional Presentation	in-person
In-Person Concurrent Sessions—Friday, October 14							
"Watershed Clue": A Vibrant Ecological Whodunit	The joyful story of an interactive, watershed-based whodunit. This environmental education take on a popular board game, built using NOAA's MWEE framework, offers an artistic outlet for students and facilitates collaboration across grade levels while integrating frequent outdoor exploration. Gain an inside look and watch the story unfold!	Rosemary Thurber, Warren Wilson College	Friday, October 14	8:30am	9:10am	Traditional Presentation	in-person
ELEMENTS: Responding to Trauma After Catastrophic Wildfire and COVID	Between 2017 to the present, rural Butte County in Northern California experienced 5 catastrophic events that sparked a youth mental health crisis requiring the immediate attention of the community. Learn how an innovative collaborative program, Elements, is using nature therapeutic wellness strategies to help youth thrive after disaster.	Anne Stephens, California State University, Chico	Friday, October 14	8:30am	9:10am	Traditional Presentation	in-person
Exhibitor Showcase: NY Sun Works Hydroponic Classrooms and STEM Hydroponic Kits	NY Sun Works is a non-profit organization that builds hydroponic farm classrooms in K–12 schools to teach science, sustainability, and climate education. Our STEM Hydroponic Kits and curriculum are a powerful hands-on learning tool to engage students in sustainability science through the lens of urban agriculture year-round in the classroom. Join us to learn more.	Manuela Zamora, NY Sun Works; Megan Nordgrén, NY Sun Works	Friday, October 14	8:30am	9:10am	Traditional Presentation	in-person
Impacts of Field-Based Environmental Education Courses on Preservice Nonformal Educators	Addressing a gap in professional development opportunities for pre-service, non-formal environmental educators, undergraduate students participated in a semester-long field-based course situated within a university marine field station in Southwest Florida during Fall 2021. We investigate the impacts of field, laboratory, and curriculum development on pre-service educators' self-efficacy and content knowledge.	Molly Nation, Florida Gulf Coast University; Heather Skaza Acosta, Florida Gulf Coast University; Jessica Marcolini, Florida Gulf Coast University	Friday, October 14	8:30am	9:10am	Traditional Presentation	in-person

2022 NAAEE Conference Preliminary Schedule: In-Person Concurrent Sessions

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Investigating Resistance To Change In Canadian Environmental Sustainability Education	Our 2019 survey of Environmental and Sustainability Education (ESE) in Canadian faculties of education revealed how tenuous a place ESE occupies in Canadian Pre-service Teacher Education (PTE) programs. After 50 years of practice, ESE still appears as an emerging field struggling for institutional and curricular legitimacy and resistance to change.	Maurice DiGiuseppe, University of Ontario Institute of Technology (UOIT); Richard Kool, Royal Roads University; Douglas Karrow, Brock University	Friday, October 14	8:30am	9:10am	Traditional Presentation	in-person
Littles Do Big Things: a Zoo Schools Stewardship Action Journey	Many think powerful service learning and civic action projects are for secondary students. Golden Charter Academy, the school for environmental stewardship and partner of the Fresno Chaffee Zoo, shows differently. See how GCA's interdisciplinary learning experiences put TK-3 students in the center of community change and environmental stewardship contributions to Fresno.	Robert Golden, Golden Charter Academy; Mandy Breuer, Golden Charter Academy	Friday, October 14	8:30am	9:10am	Traditional Presentation	in-person
A Deep Dive into the C3 Framework Inquiry Arc	How can we develop and answer compelling questions about the world? How can we apply disciplinary tools to evaluate sources of evidence, communicate conclusions, and take informed action? This program dives into the College, Career and Civic Life ("C3") Framework. Participants will create their own curriculum inquiry using the C3 Inquiry Arc	Lawrence Paska, National Council for the Social Studies	Friday, October 14	8:30am	10:00am	Hands-on Presentation	in-person
Addressing Mental Health Among Urban Khmer Youth and Elders Through Environmental Education	Connection to nature and with respective Khmer peers in nature has provided opportunities for Khmer youth and elders to build internal capacity through self-discovery. Participants will be immersed in Khmer cultural practices around mindfulness then workshop their own program ideas and how to adapt KCSKC's approach for maximum impact in community.	Stephanie Ung, Khmer Community of Seattle King County; Thyda Ros, University of Washington	Friday, October 14	8:30am	10:00am	Hands-on Presentation	in-person
Affiliate Open Space	Join Affiliate leaders to discuss the challenges and successes that are most important to your Affiliate! In this open space session, YOU will have the opportunity to suggest and manage conversation topics and working sessions to answer the question "How can we build the capacity of affiliate organizations?"	Bruce K. Young, NAAEE	Friday, October 14	8:30am	10:00am	Hands-on Presentation	in-person
Authentically Engaging the Whole Student with Culturally Responsive Education Practices	What does it mean to be culturally responsive & center students' lived experiences? Explore your cultural lens and gain knowledge to engage any audience with research-based strategies. Instructors will model culturally-competent teaching practices including: inclusive language, positive discipline, trauma-informed techniques, & thoughtful reflection to create meaningful outdoor experiences.	Kely Kemmerle, US Fish and Wildlife Service, John Heinz National Wildlife Refuge at Tinicum; Brianna Amingwa, US Fish and Wildlife Service, John Heinz National Wildlife Refuge at Tinicum; Kelly Quain, US Fish and Wildlife Service, John Heinz National Wildlife Refuge at Tinicum	Friday, October 14	8:30am	10:00am	Hands-on Presentation	in-person
Climate Education That Works: Integrating Projects WET, WILD, and PLT	Join us for an interactive session covering climate change education 101, climate communications (words that work), and K-8 activities that engage youth in climate science and exploration. You'll hear from climate experts as well as education trainers who source climate activities from Project Learning Tree, Project WILD, and Project WET.	Julia Beck, Project Wet; Rocco Saracina, Sustainable Forestry Initiative; Elena Takaki, Association of Fish & Wildlife Agencies; Jack Linden Hilgert, Nebraska Forest Service	Friday, October 14	8:30am	10:00am	Symposium	in-person
Creating Equitable Initiatives for Sustainable BIPOC Leadership	In 2022, MEEA worked in collaboration with the Nature Conservancy in Maine to launch BIPOC residency position and with the Southern Maine Conservation Collaborative to develop a and BIPOC-centered solidarity event. This workshop will share the tools, perspectives, and structures used and developed to successfully launch these initiatives.	Red Fong, MEEA; Sinet Kroch, Maine Environmental Education Association; Deborah Paredes	Friday, October 14	8:30am	10:00am	Hands-on Presentation	in-person
Culturally Responsive Pedagogy & Practice in Environmental Learning Programs	For environmental learning programs to have the greatest impact, they must be inclusive of the diverse communities they serve. This symposium will share a new research project that combines research and expertise with environmental learning with best practices in culturally responsive pedagogy to create a model for inclusive programs worldwide.	Corey J Knox, University of Arizona; Colin Waite, Institute for Earth Education; Norma Gonzalez, Tucson Unified School District; Nicole Ramirez, TUSD CRPI; Loreno Lopez, Tucson Unified School District	Friday, October 14	8:30am	10:00am	Symposium	in-person
Plant Superheroes To The Rescue: Teaching Plant Adaptations and Resilience	Seven Plant Superheroes show off their superpowers to teach about patterns of plant adaptations that make them resilient to environmental and human-made challenges. Armed with super understanding, participants will unearth the powers of their chosen plants, creating new Heroes to join the League of Plant Superheroes.	Lorie Cavalli, UA Cooperative Extension Arizona Project WET; Holly Thomas-Hilburn, Arizona Project WET, University of Arizona	Friday, October 14	8:30am	10:00am	Hands-on Presentation	in-person
Under Construction! EE Guidelines for Empowering Climate Change Action	NAAEE is in the early stages of developing a set of guidelines focusing on climate change education and climate justice. When completed, they will become part of the Guidelines for Excellence series. Come and get a sneak peek at our progress!	Bora Simmons, National Project for Excellence in Environmental Education; Anne Umali, NAAEE	Friday, October 14	8:30am	10:00am	Hands-on Presentation	in-person

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Civic Engagement Through Transformative Community Connections	Using the transformative power of direct, hands-on student action and civic engagement, this presentation will showcase four different approaches to participatory learning. We will highlight the role of student and community partnerships across cultures, socio-economic backgrounds, landscape compositions and Indigenous ways of knowing.	Justin Thomas Kaput, Suffield Public Schools; Natasha Sarkar, Teacher, Inner City Youth Development Association; Angela Rivera Rivera, Prairie View Middle School; Patricia Marie Dugan-Henriksen, Groveton High School	Friday, October 14	9:20am	10:00am	Traditional Presentation	in-person
Community Engagement A Community Advocate's Perspective TIV	How can you balance community empowerment and revitalization with individual responsibility? • Individual level: Stop blaming others. • Self-Awareness: Adjust for your community; know that they may be adjusting for you. • Take Training: Cultural Sensitivity/Competence	Richard Mabion, Building A Sustainable Earth Community	Friday, October 14	9:20am	10:00am	Traditional Presentation	in-person
Creative Arts and the Ocean: Art-Making to Teach Climate Change	Bow Seat uses art-making to actively engage students in understanding climate change, forging personal connections to the ocean, and discovering new methods for advocacy. Join to learn about the annual Ocean Awareness Contest as a tool for youth to build research, critical thinking, and communication skills in an environmental context.	Eric Carstens, Bow Seat Ocean Awareness Programs	Friday, October 14	9:20am	10:00am	Traditional Presentation	in-person
Developing Environmental, Conservation, & Climate-Focused Field Courses for Higher Education	This presentation will focus on three field courses developed by Johns Hopkins University, how they overcame logistical challenges, how they endeavored to blend indigenous voices and knowledge with science content, and how they serve as an experiential learning model for programs preparing scholar-practitioners in the environmental, climate, and conservation space.	Jennifer da Rosa, Johns Hopkins University	Friday, October 14	9:20am	10:00am	Traditional Presentation	in-person
eeWORKS: From Anecdotes to Evidence Demonstrating the Power of EE	Join us to learn what current research is telling us about EE's effectiveness at achieving outcomes in multiple disciplines including pre-K-12 education, conservation, climate change, community and citizen science, civic engagement, and positive youth development. You'll hear from NAAEE's research teams at Stanford, the University of Florida, and UC Davis.	Nicole Ardoin, Stanford University; Drew Burnett, Rock Bottom Inc.; Judy A. Braus, NAAEE; Heidi Ballard, School of Education, Univ. of California; Martha C. Monroe, University of Florida	Friday, October 14	9:20am	10:00am	Traditional Presentation	in-person
Evidence-Based Learning Network: Shifting Evaluation from Accountability to Learning	This interactive presentation will describe developing a collaborative learning network with 43 organizations associated with National Park Foundation's Open Outdoors for Kids program. We will share how systematic evaluation and regular opportunities to share ideas with each other can lead to systematic programmatic improvement, collaborative learning, and enhanced evaluation capacity.	Marc Stern, Virginia Tech; Robert B Powell, Clemson University; Troy Frensey, University of North Carolina at Wilmington; Kelley Anderson, Virginia Tech; Karen Lee, National Park Foundation	Friday, October 14	9:20am	10:00am	Traditional Presentation	in-person
Becoming an Effective Advocate for EE	Equitable access to high-quality environmental and climate education depends on advocates at the local, state, and federal levels who share meaningful stories of impact with decision-makers. We'll talk about how important advocacy is to the field of EE, share tools and resources for effective advocacy, and highlight policy trends and priorities.	Sarah Bodor, NAAEE; Brock Morris Adler, Environmental Educator	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
Bridging the Gap Between Environmental Resources and Educational Practice	Despite the wealth of resources available, educators often have little opportunity to explore sustainability materials. This roundtable will discuss the dichotomy between the wide variety of opportunities available for educators and their limited capacity to take advantage of them and explore approaches to bridging the gap between them.	Allison Wolf, Arizona State University; Molly Cashion, Arizona State University / Sustainability Teachers' Academy	Friday, October 14	10:30am	11:10am	Roundtable Discussion	in-person
Community Engagement: Reflections, Learnings, and Realities from Community Action Projects	Join two NAAEE Civic Engagement/Environmental Education (CEE-Change) fellows for an interactive exploration of their community action projects. Together we'll mine and discuss how to apply lessons learned for participatory projects in progress. Come prepared with your own experiences and be ready to discover emerging best practices together.	Mandy Baily, University of Florida; Lisa Yeager, Miami University	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
Cultivating liberating, culturally-sustaining garden-based learning environments	How can garden-based learning environments be designed in ways that are culturally-sustaining for communities of color? In this roundtable, we plan to problematize dominant forms of garden education and consider instead how garden programs and educators can support diverse communities in building toward healing, joy, and liberation.	Chris Jadallah, University of California, Davis - School of Education; Kunal Palawat, CommunityGrows	Friday, October 14	10:30am	11:10am	Roundtable Discussion	in-person

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eeVAL: Our Values in Action	You may have heard about eeVAL, a project aimed at building capacity for evaluation in EE. Core to this work is our values that center culturally responsive and equitable evaluation. Come hear what these values look like in practice from some of our partners and find out ways to get involved moving forward.	Charlotte Clark, Duke Nicholas School of the Environment; Kathryn Stevenson, NC State University; Jean Chimbirima Kayira, Antioch University New England; Karyl Askew, Karyl Askew Consulting, LLC.; Steven Braun, eeRISE LLC; Libby McCann, Antioch University New England; Cindy Wilems, Galveston Bay Foundation; Ashlyn Teather, Duke University	Friday, October 14	10:30am	11:10am	Roundtable Discussion	in-person
Harnessing Local EE Networks to Cultivate a Geo-STEM Learning Ecosystem	Learn how collaboration between classroom teachers, informal science centers, research scientists and environmental educators during intensive in-service professional development can activate learning and create community connections in a rural, underserved area. We share lessons learned in efforts to introduce diverse students to Geo-STEM career pathways using place-based, inclusive, outdoor learning approaches.	Victoria Triana, UNC Institute for the Environment; Sarah Yelton, UNC Institute for the Environment; Kathleen Gray, UNC Institute for the Environment	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
Lessons in Youth Empowerment from NOAA's First Virtual Youth Summit	In 2021, high school students from 12 aquariums across North America convened online for the first-ever NOAA Virtual Youth Summit. The event empowered participants to address ocean and coastal issues impacting their communities. Hear from NOAA staff and youth leaders about lessons learned from planning and carrying out this event.	Lauren Gibson, North Carolina State University; Lisa Kim, National Oceanic Atmospheric Administration	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
Opportunities to Support Your Affiliate Through Partnership in an Outdoor Learning Social Enterprise	Join us to find out how your Affiliate can partner on this outdoor learning social enterprise. By working collaboratively with Affiliates, we can support the advancement of our shared mission while providing financial support for you to undertake your work.	Duncan Whittick, CBEEN & The Outdoor Learning Store	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
Roaming and Contained Nature: Reconceptualizing the Human/Nature Dichotomy	This session asks participants to think about nature not as a place to go, but rather, in relation to how children move through it. Participants will reflect on sustainability pedagogy/practices in relation to nature they have access to and identify new pedagogies/lenses they can bring to their classrooms.	Julia L. Ginsburg, Concordia University; Shannon Audley, Smith College	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
Strategies for supporting LGBTQ+ Environmental Educators and Staff	Join a team of queer environmental education professionals as we share and respond to current legislative trends. We will co-create solutions for supporting educators and staff through this era of social change and increased discrimination. We will close by offering resources for ongoing learning.	Charissa Virginia Jones, OSU Extension Service -- Outdoor School; Yarrow Koning, Florida Atlantic University; Elizabeth A. VanWyhe, City of Ashland Parks and Recreation	Friday, October 14	10:30am	11:10am	Roundtable Discussion	in-person
Supporting Educators in Providing Trauma-Informed Care	After devastating wildfires in their communities, a team in southern Oregon developed resources -- including an NGSS-aligned outdoor school curriculum and teacher workshops -- to help educators teach about fire while attending to students' social-emotional needs. Join us to learn about this effort and to share your insights about trauma-informed environmental education.	Amy E Hoffman, OSU Extension Outdoor School; Tara Laidlaw, Southern Oregon Land Conservancy	Friday, October 14	10:30am	11:10am	Roundtable Discussion	in-person
The Green Workforce, Environmental Education and MWEs; Preparing Students for Today's and Tomorrow's Jobs	NOAA and partner's research have identified the importance of helping students develop the skills and competencies essential in addressing the environmental issues through today's and tomorrow's jobs. Join us to explore the opportunities for environmental education programming to contextualize and connect to these skills and competencies and prepare students for their future career.	Bart Merrick, NOAA; Frank Niepold III, NOAA Climate Program Office; Elise Trelegan, NOAA Chesapeake Bay Office	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
The Importance of Environmental Education for Indigenous Youth in the Rupununi, Guyana	Indigenous People across the world are being commended for their role in preserving the environment. Yet the success of Indigenous communities in conducting this function is being threatened by the impacts of globalization. The delivery of environmental education to Indigenous Youth is therefore essential to ensuring the continuation of their capacity to protect their surroundings	Alyssa Melville, South Rupununi Conservation Society; Neal Millar, South Rupununi Conservation Society	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
The Importance of Hidden Curriculum in Environmental Education: Case Study Findings	This presentation frames the concept of hidden curriculum within an environmental education context while highlighting the importance of understanding how hidden curriculum is present within learning experiences. Findings from a qualitative case study designed to uncover elements of hidden curriculum will be discussed as well.	Jennifer Hileman, Pennsylvania State University; B. Derrick Taff, Penn State University; Lucy R. McClain, Shaver's Creek Environmental Center - Penn State University	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person

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The Next Great Mystery Story...Climate Curriculum	How can Agatha Christie inspire great lessons on climate change? Mystery inspires everyone's curiosity. Come learn how the Environmental Volunteers use the draw of a good mystery story to fully engage our students and then teach the foundations of climate change while we have their attention.	Brittany Joy Sabol, Environmental Volunteers	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
Transformative Learning Online? Inclusive Pedagogy for Sustainability and Justice Education	This session highlights strategies for engaging students in online social sustainability and environmental justice lessons using techniques to illuminate and disrupt systems of power and inequity. Presenters will share insights from their research on inclusive online teaching and lessons learned from their praxis.	Jenny Myers, Wells College; Deanna Lloyd, Oregon State University / University of Wisconsin - Stevens Point	Friday, October 14	10:30am	11:10am	Traditional Presentation	in-person
USDA Forest Service Conservation Education Strategy	The USDA Forest Service is launching new strategy that will direct how the Agency delivers Conservation Education programs that uplift our communities and partners. Come learn the new strategy's vision for Conservation Education and how it will drive future Forest Service partnership efforts.	Tinelle Bustam, USDA; Heidi McAllister, US Forest Service; Rachel Bayer, Forest Service; Susan Cox, USDA Forest Service	Friday, October 14	10:30am	11:10am	Poster Presentation	in-person
Actively Engaging Rural Youth in Food System Challenges	This presentation will introduce you with the Next Steps for Leadership program being developed and piloted by Arizona 4-H Staff. NS4L is a 15 session problem based learning program focused on solving food system challenges. The program is geared towards rural youth with a particular focus on engaging youth from tribal nations and Latinx communities.	Matt Swanson, University of Arizona; Terrace Ewinghill, University of Arizona	Friday, October 14	2:15pm	2:55pm	Traditional Presentation	in-person
Career Kickstart: Resume and Cover Letter Tips for Early-Career Professionals	Part of NAAEE's Skill-Building Initiative for Early Career Professionals	Mary McGillicuddy, Arizona State University	Friday, October 14	2:15pm	2:55pm	Traditional Presentation	in-person
Culturally Responsive - Sustaining Practices in Garden-based Education on Secondary School Campuses	Garden-based education significantly impacts students, but how do students impact garden programming? Explore the past, present, and future incorporation of culturally responsive-sustaining practices in garden-based education for secondary students. This is a presentation of research results on extant literature, practitioners' experiences, and future implications.	Kimberly Jones, Texas Tech University	Friday, October 14	2:15pm	2:55pm	Traditional Presentation	in-person
Learning from EE Case Studies: Using Creative Approaches	The Global Environmental Education Partnership's new e-book offers a creative approach to the professional development of environmental educators through learning from case studies of EE programs around the world. In this interactive session, we will explore some of these approaches for using case studies as teaching tools.	Nina Hamilton, NAAEE; Alex Kudryavtsev, Cornell University	Friday, October 14	2:15pm	2:55pm	Traditional Presentation	in-person
Raising the Green Roof: An Elementary (Fourth Grade) Water Cycle Unit	This project combines expertise in elementary science education and sustainable design to develop, pilot, and evaluate a green roof water literacy unit for 4th-grade students. The unit emphasizes how the water cycle interacts with the built environment and the important role of green roofs in this process.	Lilian Priscilla, University of Missouri; Laura Cole, University of Missouri	Friday, October 14	2:15pm	2:55pm	Traditional Presentation	in-person
Reaching Formal and Nonformal Educators Through Online Professional Development Courses	Want to develop online EE professional development for formal and nonformal educators? Through the case study of Project Learning Tree's newest Explore Your Environment Online Professional Development course, participants in this session will learn five practices to create EE online courses that are engaging, effective, and follow best practices for adult learning.	Ana Leirner, Sustainable Forestry Initiative/Project Learning Tree	Friday, October 14	2:15pm	2:55pm	Traditional Presentation	in-person
Youth-Led Community Outreach	In this session, we will discuss the power of youth-led community outreach and the research that supports it. You will investigate why and how adults can empower young environmental citizens with the tools they need to take collective action and have their voice at the table to discuss solutions.	Alyssa McConkey, Earth Force; Sarah Jennings, Earth Force; Taylor Ruffin, Earth Force; Raizha Yurivica Delgado, Earth Force	Friday, October 14	2:15pm	2:55pm	Traditional Presentation	in-person
Cross-Curricular, Co-Created, Culturally-Affirming: An NPS Partnership for Equitable Environmental Education	In this interactive workshop, learn our strategies for creating a cross-curricular, culturally-affirming, science and history MWEE that fulfills the missions of multiple partners, meets Virginia SOLs, promotes environmental literacy, embraces hybrid learning, reaches every 4th/5th equitably, and helps students make meaningful connections to local waterways, all during the pandemic!	Brittany Hall, National Park Service Chesapeake; Nathaniel Draper, James River Association	Friday, October 14	2:15pm	3:45pm	Hands-on Presentation	in-person
Decision-Making Processes for Shared Leadership Models	In this session participants will be introduced to decision-making processes that encourage humanization, consensus, and cooperation in the pursuit of shared leadership structures. You will be provided an opportunity to practice these decision-making processes in a facilitated role-play with other participants.	Sylvia Hadnot, E3 Washington; Red Fong, MEEA	Friday, October 14	2:15pm	3:45pm	Hands-on Presentation	in-person

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Evaluating Student Funds of Knowledge in Environmental Education Curriculum	Through this hands-on presentation, participants will explore the concept of student funds of knowledge. Following a brief presentation on the topic, participants will collaboratively review existing curriculum to determine if and how student funds of knowledge is present and discuss strategies for further supporting its incorporation into different learning experiences.	Jennifer Hileman, Pennsylvania State University; Lucy R. McClain, Shaver's Creek Environmental Center - Penn State University	Friday, October 14	2:15pm	3:45pm	Hands-on Presentation	in-person
Expanding a Statewide System of Supports for Environmental Literacy	Learn how the California Environmental Literacy Initiative evolved its leadership council and innovation hubs to transform the formal and nonformal education systems to support environmental literacy through equity-focused projects that influence curriculum, campus, community, and culture. Participants will then critique the model and apply it to their own contexts.	Amy Frame, Ten Strands; Andra Yeghoian, San Mateo County Office of Education; Estrella Risinger, Association for Environmental & Outdoor Education; Margaret (Peggy) Harte, University of California, Davis Center for Community and Citizen Science; Naama Sadan	Friday, October 14	2:15pm	3:45pm	Hands-on Presentation	in-person
Glasgow COP26, Arctic Sea Ice, and the Living School	Integrate climate change education advocacy, Arctic observations, and contemplative action through the art of seeing, noticing, and telling about it. Sarah will share how she is integrating her UNFCCC COP26 experience, doing Arctic sea ice science, and CAC Living School learning into creating a future that includes every thing.	Sarah R Johnson, Wild Rose Education	Friday, October 14	2:15pm	3:45pm	Hands-on Presentation	in-person
Greening STEM Grants: Supporting Environmental Education on Public Lands	An overview of the Greening STEM program model and funding opportunities will be presented. Partnerships between federal public land agencies, schools, and nonprofits will be showcased. Grant eligibility criteria and timelines will be shared. Appointments for free follow up consultations and requests for grant partner matchmaking will be taken.	Robert Sendrey, National Environmental Education Foundation; Linda Rosenblum, National Park Service; Rachel Bayer, Forest Service; Nikki Grant-Hoffman, BLM; Heidi McAllister, US Forest Service	Friday, October 14	2:15pm	3:45pm	Symposium	in-person
Looking Back/Building Forward: Constructing the Future for EE Evaluation	This session for evaluators and users of evaluation will take a collective look at the history of evaluation in EE, identify current successes and the "same old" barriers the work faces, then envision how we as a field address the barriers, and move into the next phase of EE evaluation.	Karyl Askew, Karyl Askew Consulting, LLC.; Charlotte Clark, Duke Nicholas School of the Environment; Joe E. E Heimlich, COSI; Kathayoon Khalil; Martha C. Monroe, University of Florida; Emma Norland, Southern New Hampshire University; Kathryn Stevenson, NC State University	Friday, October 14	2:15pm	3:45pm	Hands-on Presentation	in-person
Activating Site and District Partnerships for Transformative Environmental Education	Environmental education is often championed by individual teachers, meaning student access is uneven. To institutionalize environmental education, SEI is activating partnerships and launching programs at the campus and district levels. Learn about four SEI programs that operate at scale, ensuring equitable access to environmental education for all students.	Emily Mallen, SEI; Alexis Fineman	Friday, October 14	3:05pm	3:45pm	Traditional Presentation	in-person
Addressing the "Invisible Big Kids" Influence on Youth Outdoors	In order to nurture children's love of nature, we must help the adults in their lives feel comfortable and safe outdoors. Let's discuss how we can support adults who feel anxious and fearful in nature such that we can strengthen both their own and their children's relationships with the Earth.	Paige Humphrey, Cooper Center for Environmental Learning; Britne MacCleary; Isaac Zaid Silva, Cooper Center; Alexianne Ramirez, Cooper Center for Environmental Learning; Jennifer Galan	Friday, October 14	3:05pm	3:45pm	Roundtable Discussion	in-person
Communicate to Elevate: Professionalism and Interviewing Tips for Environmental Educators	Part of NAAEE's Skill-Building Initiative for Early Career Professionals	Mary McGillicuddy, Arizona State University	Friday, October 14	3:05pm	3:45pm	Traditional Presentation	in-person
Creating Capacity in Higher Education	Although there are more opportunities than ever to connect with educators around the globe, it is important to improve our local networks as well. This presentation will share experiences in developing statewide networks for higher education faculty, providing insights that could help in your region.	Rebecca L. Franzen, University of Wisconsin-Stevens Point, Wisconsin Center for Environmental Education; Patty Born, Hamline University School of Education; Sarah Haines, Towson University; Chelsea McClure, Towson University; Bryan Nichols, Florida Atlantic University; Renee Strnad, North Carolina State University; Jacob Tepsa, University of Wisconsin-Stevens Point	Friday, October 14	3:05pm	3:45pm	Traditional Presentation	in-person
Exploring A Watershed Model For Urban Place Attachment	We invite participants to discuss whether using the watershed as a frame within urban environmental education cultivates a deeper sense of place and belonging, and provides a novel context for developing environmental literacy and stewardship among disenfranchised communities. Watershed maps and basic program content is provided to support discussion.	Nicole Lawson	Friday, October 14	3:05pm	3:45pm	Roundtable Discussion	in-person
Extending Extension: Designing and Implementation of Women Owning Woodlands in Missouri	Women Owning Woodlands-Missouri was designed by Missouri Cooperative Extension and provides opportunities for women woodland owners and woodland enthusiasts to learn more about natural resources. This session will provide information and discuss the design of the programs and the evaluations used to measure impact of the program.	Sarah Havens, University of Missouri-Extension; Christine Jie Li, University of Missouri; Katarina Langan	Friday, October 14	3:05pm	3:45pm	Roundtable Discussion	in-person

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Integrating Sustainability Education into PreK-8 Teacher Education: A Case Study	This session will engage audiences in approaches to integrating sustainability education into in-service teacher professional learning. Focusing on five competencies of sustainability knowledge, systems thinking, futures thinking, social justice, and active citizenship, this session will provide a case study for engaging adult learners in their work environments.	Rachael Rost, Topeka Zoo and Conservation Center; University of Wisconsin-Stevens Point	Friday, October 14	3:05pm	3:45pm	Traditional Presentation	in-person
Let's Get Real About It: Centering Justice & Community in EE	Come share and learn about stories, resources, and ideas for working at the intersection of environmental justice, environmental education, and authentic community engagement. What does it look and feel like when all of these things align? What are some of the people, organizations, and communities doing work at this nexus?	Libby McCann, Antioch University New England; Emily Schuttenberg, Antioch University New England; Susana C Mateos, Antioch University New England; Luciana Ranelli, Antioch University New England; Lake Superior National Estuarine Research Reserve; Jean Chimbirima Kayira, Antioch University New England; Anne Umali, NAAEE; Bora Simmons, National Project for Excellence in Environmental Education	Friday, October 14	3:05pm	3:45pm	Roundtable Discussion	in-person
Reaching our Entire Community through Intentional and Relatable EE	Our nation is diverse. As EE professionals, we need to ensure all of our community hears the message. But how is this done with limited resources, connect with our community members to meet them where they are? Fort Worth Water is doing just that & want to show you how.	Katy Reiss, Fort Worth Water; Hilda Zuniga	Friday, October 14	3:05pm	3:45pm	Traditional Presentation	in-person
Using Outdoor Settings to Teach Mathematics Concepts to Pre-K Students	Explore strategies for engaging early childhood students in mathematics experiences in an outdoor environment. This presentation will include innovative ideas for exploring mathematics concepts in outdoor learning spaces, techniques for engaging students across economic and cultural boundaries, and strategies for connecting literacy and mathematics standards with nature.	Juliann Dupuis, Notre Dame of Maryland University; Lisa Pallett, Notre Dame of Maryland University; Ashley Nicole Demski, Baltimore City Public Schools	Friday, October 14	3:05pm	3:45pm	Traditional Presentation	in-person
Climate Anxiety and Environmental Education: A Call to Change	Feeling worried or anxious about climate change? After highlighting where the field is at regarding educational approaches to address climate anxiety, let's discuss and learn how to link the research to practice supporting educators and learners in the face of the growing mental health impacts of climate change.	Emily Olsen, The Pennsylvania State University	Friday, October 14	4:00pm	4:40pm	Roundtable Discussion	in-person
Creating a Community of Practice for Collaborative Climate Change Education	Dive into the Sustainable WATERS program supporting underrepresented schools through teacher professional development. Uncover the research elements used to design and evaluate a Community of Practice dedicated to implementing a climate change curriculum with middle school students. Review the program findings and effective ways to encourage teacher ownership of programming.	Regina Bale, Florida Gulf Coast University; Heather Skaza Acosta, Florida Gulf Coast University; Jennifer Jones, FGCU; Molly Nation, Florida Gulf Coast University	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
Disability: the Often-Overlooked Identity in Environmental Education	Disability remains a commonly overlooked identity among efforts to make the field of environmental education more equitable. We will examine the concept of disability through an intersectional lens, and discuss action-oriented solutions to eliminating barriers to engagement for both practitioners and participants with disabilities.	Sasha Pereira, Canyonlands Field Institute, Moab UT; National Ability Center, Moab UT; North Carolina State University, Raleigh NC	Friday, October 14	4:00pm	4:40pm	Roundtable Discussion	in-person
Educating for Change by Integrating Environmental Literacy and Voter Education	How can we integrate environmental literacy and voter education to stimulate environmental voter behavior? Join our discussion of best practices for encouraging people to register, and vote for pro-environment candidates and policies. See what is working, what needs to be done, and how we can build a pro-environment political coalition.	Jim Clifford, Exploring Climate / Exploring Justice	Friday, October 14	4:00pm	4:40pm	Roundtable Discussion	in-person
Elevating Youth Voice to Address Environmental Issues Using Augmented Reality	AR Girls empowers teen girls to communicate about important environmental waste issues in their community that matter to them by leveraging their existing interests to design and produce augmented-reality (AR) experiences. Explore the AR Girls program and how to adapt the materials to fit your context.	Jenna Linhart, University of Maryland Center for Environmental Sc	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
From Commitment to Action: Equitable Outdoor Education with Self-Evaluation Tools	Are you committed to equity in outdoor education but aren't sure how to turn your commitment into action? Join the Oregon State University Extension Service Outdoor School program to learn about three tools created to support organizations in embedding equity in their programs.	Charissa Virginia Jones, OSU Extension Service—Outdoor School; Kristi Backe, OSU Extension Outdoor School; Steven Braun, eeRISE LLC	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person

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Nature Legacy Framework: Strategies for Preparing Future Conservationists and Leaders	Join this discussion to learn about a novel research framework and participate in lively exchange of ideas about framework-based teaching practices such as Seek Simplicity, Share Yourself, and Encourage Thinking. Expect to leave with an understanding of the research framework and some ideas about how to improve your own programming.	Julie Thomas, Audubon Nebraska	Friday, October 14	4:00pm	4:40pm	Roundtable Discussion	in-person
Nature Niños Prescott: Healthy Equity, Collective Action, and Early Learning	Leveraging asset-based collective action, Nature Niños is increasing opportunities for healthy outdoor time & nature connection for families & children 0-8 through free, bilingual, & multi-faceted approaches to infrastructure, policy, & behavior change. Learn how a small community collaboration became an intergovernmental, interagency, & interorganizational success & how you can do this too!	Ellen Bashor, Prescott Community Nature Center / Prescott College; Rebecca Serratos	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
Preparing Educators to Engage In Community-based Science Using Alternative Research Methodologies	Citizen Artist, a field-based participatory science research platform employs alternative research methods to engage broad audiences in the investigation of pressing community-driven environmental issues. We train environmental educators from Alaska to Bosnia in Art-Based Perceptual Ecology research methodologies, considered by some as essential tools in the educator's modern science toolkit.	Lee Ann Woolery, Citizen Artist	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
Sharpening Your Personal Consulting Skills	Whether your job title says it or not, you are a consultant. How you share your ideas or contribute to decisions matters. What skills do you bring that others don't recognize? Learn how to sharpen your personal consulting skills to be invaluable to your agency or organization and make a difference.	Chuck Lennox, Lennox Insites	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
Teaching Environmental Awareness, Advocacy and Literacy with How's My Waterway	Citizens use How's My Waterway to learn about their water, explore data, and find out what's causing pollution or other issues in their community. Students and educators will use this tool to discover what is affecting their local waters and find ways to get involved to restore and protect them.	Kiki Schneider, EPA	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
The Silver Tsunami: The Water Workforce Crisis and Environmental Education	A national "silver tsunami" of retirements in the water industry is leading to a workforce crisis that may impact the availability of clean water. The Cumberland River Compact is working with industry, nonprofit, and higher education partners in Tennessee to prepare a new skilled workforce for these green careers.	Catherine Price, Cumberland River Compact	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
Transforming Zoo Camp Through Restorative Practices & Camper Choice	Incorporating restorative practices into summer camp leads to stronger camp communities, increased positive camper interactions and an increase in conservation themes and activities. The Central Park Zoo will share how restorative practices and camper choice revitalized their camp and include steps to help you bring restorative practices to your programs.	Michelle Beach, Wildlife Conservation Society - Central Park Zoo	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
Updated and Revised! Environmental Education Programs: Guidelines for Excellence	NAAEE's Environmental Education Programs: Guidelines for Excellence, part of the Guidelines for Excellence series, provides a set of recommendations for developing and implementing EE programs. We've just updated them. Come and get a sneak peak!	Bora Simmons, National Project for Excellence in Environmental Education	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
Virtual Programs—Activity Without Talking: A Toolkit	Do you struggle with chaos during virtual programs? So many of the valuable in person field trip audience engagement techniques that we all love don't translate well in the virtual world. Join us to explore our list of adapted techniques – regain control of your virtual classroom programs!	Jennifer Phillips, National Park Service; Rocky Mountain National Park; Christie Wilkins, Rocky Mountain National Park	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	in-person
In-Person Concurrent Sessions—Saturday, October 15							
"I Speak for the Trees" Integrated Project Based Learning Unit	Participants will learn how to teach four to nine year olds about trees using the Integrated Project Based Learning Approach. Science, Math, ELA, Social Studies, Fine Arts, and Physical Education Standards will be met as students engage in inquiry based learning, hands-on projects, and partnering with community agencies.	Evelyn "Eppie" Miller, The Natural Classroom and Hawken School	Saturday, October 15	8:30am	9:10am	Traditional Presentation	in-person
Integrating Service Learning into University Courses while Strengthening EE Skills	Explore how the University of Nebraska-Lincoln, Lincoln Public Schools Community Learning Centers and the Nebraska Forest Service created a course where college students are certified in WET, WILD, PLT and then spend six weeks delivering EE at CLCs in underserved communities and how you can design similar collaborations.	Jack Linden Hilgert, Nebraska Forest Service	Saturday, October 15	8:30am	9:10am	Traditional Presentation	in-person

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Making Wetlands Conversation Real to Students Through Virtual Environments	Focusing on wetlands and their connection to flooding puts STEM in a real-world context that is relatable to students living in coastal or other flood prone areas. Immersing students in these environments to learn about ecosystem dynamics using virtual field trips makes it a fun learning experience for the students.	Nastassia Jones, Southern University A&M College	Saturday, October 15	8:30am	9:10am	Traditional Presentation	in-person
MWEEs as a Tool for Partnership and Relationship Building	Meaningful watershed educational experiences (MWEEs) have opened the door to unexpected and welcome partnerships. In addition to sharing examples of how this has worked in Massachusetts, it is a priority for us to learn from our participants, to hear about similar experiences, and encourage others to implement the MWEE model.	Morgyn Ellis, Mass Audubon; Jeremy Mombourquette, Mass Audubon	Saturday, October 15	8:30am	9:10am	Traditional Presentation	in-person
NOAA Citizen Science Opportunities to Enhance Environmental Education	Citizen science is a vital part of NOAA's research efforts, and helps inform our Nation's prediction and management of weather, climate, and oceans. This talk will cover ways educators can engage in NOAA citizen science, even during a pandemic, to advance STEM learning, conservation, and address diversity and equity goals.	Laura Oremland, NOAA Fisheries	Saturday, October 15	8:30am	9:10am	Traditional Presentation	in-person
Community-Based Curriculum Development: A Model For Culturally Responsive Programming	How does your curriculum create meaningful connections? Join ELSO, Inc. as we share a community-based model for curriculum development that engages learners in culturally responsive, student-driven programming, energizing youth as confident and powerful leaders who will solve problems and impact the world in ways we can only imagine today.	Erin Cathcart, ELSO, Inc.; Sprinavasa Brown, ELSO, Inc.	Saturday, October 15	8:30am	10:00am	Hands-on Presentation	in-person
Earthwalks...Experiencing the Richness and Wonders of Nature	Once we have folks outdoors, how best to get them to interact with nature? An Earthwalk is a light and refreshing touch of the natural world that can deepen feelings for the earth with new discoveries and sensory experiences through structure fun.	Colin Waite, Institute for Earth Education	Saturday, October 15	8:30am	10:00am	Hands-on Presentation	in-person
Engaging Diverse College Students in Environmental Learning and Leadership	What barriers and opportunities exist for connecting college students with minoritized identities to environmental experiences, projects, and programs? A panel of students, program staff, and faculty at University of Arizona and partnering organizations will share their experiences and actionable strategies for engaging diverse students with environmental learning opportunities.	Ariane Mohr-Felsen, University of Arizona; Denisse Ortega Lora; Ilse Rojas-Hamilton, University of Arizona; Kaustubh Thirumalai, University of Arizona; Lexis Meza, ARES; Mira Kaibara, University of Arizona; Lizbeth Perez	Saturday, October 15	8:30am	10:00am	Symposium	in-person
Nature Writing with Diverse Urban and Suburban Youth	Explore ways to engage diverse communities in writing about connections between home cultures and our natural world. Participants will explore specific writing strategies and activities to use in a wide range of settings. Please bring pen and paper (or phone or pad) for writing.	Rob Linne, Adelphi University	Saturday, October 15	8:30am	10:00am	Hands-on Presentation	in-person
Teach Climate Science and Solutions with Active Responding and Video	Combine an engaging YouTube Climate Channel, Next Generation Science Standards, and provocative questions, and what do you get? A Dive Deeper climate curricula for secondary school students! Try out a virtual course and hear from a teacher piloting them, along with educators advancing active student responding as a learning method.	Caroly Shumway, Center for Behavior and Climate; Stephen Eversole, Center for Behavior and Climate; JULIE SHUMWAY, Montessori Children's House of York, Inc.	Saturday, October 15	8:30am	10:00am	Hands-on Presentation	in-person
The Uniqueness of Seeds	Like the seeds and growing instructions of various plants, we must embrace our uniqueness and individual direction towards cultivating our self-awareness. After an exploration of seed varieties and their growth requirements, participants will create their own seed packets with individual "growing instructions" to cultivate wholeness and well-being.	Sarah Croscutt, From the Outside, LLC	Saturday, October 15	8:30am	10:00am	Hands-on Presentation	in-person
Beyond Borders: Placemaking is Political. A Neighbor2Neighbor Action-Research Toolkit	Neighbor2Neighbor civic and environmental education explores "learning our way towards sustainability" through green neighborhoods grounded in deepening democracy and political-ecologies of place. How can Neighbor2Neighbor stories and toolkit help educators and neighbors scaffold DIY action-learning across boundaries, from "food not lawns" to permaculture precincts to regenerative communities? Join us for this conversation about learning in community.	David Silverman, CEE-Change Fellow; Melanie Schikore, Communicas Collaborative	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person
Collaborating to Achieve Systemic, Sustainable Watershed Education and Civic Action	How are five organizations in the Chesapeake Bay region delivering systemic and sustainable meaningful watershed educational experiences (MWEEs)? Join as we share our success stories using the MWEE process as our guide. We will use examples from our organizations to highlight successful systemic and sustainable environmental education and civic action.	April Harper, Friends of the Rappahannock; Candace Lutzow-Felling, Blandy Experimental Farm/UVA; Nathaniel Draper, James River Association; Sarah Jennings, Earth Force; Sarah Nuss, Chesapeake Bay National Estuarine Research Reserve in VA	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person

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Developing a Local and Statewide Environmental Research Based Internship Program	The session will present a local and statewide youth diversity leadership and internship model to support the environmental industry. Using real world engagement and the development of a blended learning instructional course, high school and college students are provided employment in a high standards scientific environmental field based research project	John Sonnenberg, Carmenta Education; Joe Rogalski, College of Lake County, Grayslake North High School	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person
Learning and Leading Together Using the IEEIA Curriculum	Wanted: Passionate people seeking solutions for real world environmental issues. Are you open-minded and collaborative? Do you long to effect positive change? Does crunching numbers and analyzing data make you giddy with joy? If so, join us for student led activities highlighting Investigating and Evaluating Environmental Issues and Actions.	Kaehuiki Linker Meyers-Moss, Aka'ula School; Lia Peterson, Aka'ula School; Auli'i Ching, Aka'ula School; Nazaria Kahinu, Aka'ula School; Kaioloha Alcon, Aka'ula School; Kia'i Ching, Aka'ula School; Dara Lukonen, Aka'ula School	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person
Learning from the land and getting young children outside in British Columbia	An innovative on-line course free to early childhood educators in BC encourages them to take children outside and learn from the land. Indigenous educators, outdoor educators, licensing officers, Elders and knowledge keepers from around the province along with academics and researchers informed the development of this course.	Enid Elliot, Camosun College	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person
Little Hands on the Land: Outdoor STEM for Early Learners	In this workshop, we will explore ways to encourage early learners to interact with the natural world around them through STEM based and standards aligned environmental education activities. From hoop hikes to sound mapping and augmented reality, this workshop will deliver plenty of new ideas to get little hands on the land.	Julie Travaglini, Allegheny Land Trust	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person
Reducing Barriers though Gear Lending Libraries	The Forest Preserves of Cook County will share their experiences creating a community kayak training program and gear lending library. Learn the successes and challenges of this gear library initiative and how they diversified partnerships and users by placing the "power to paddle" in the hands of communities they serve.	Justin Mercer, Forest Preserve District of Cook County; Kristen Baecker, Forest Preserves of Cook County	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person
So You Have Had an ELP for Several Years... Now What?	Since the reintroduction of No Child Left Inside in 2007, a lot has changed. Join us to explore ideas and opportunities for updating and refreshing your state's environmental literacy plan. Learn how several other states approached the process and discuss opportunities to leverage the reintroduction of No Child Left Inside.	Katie Navin, Colorado Alliance for Environmental Education; Sarah Bodor, NAAEE; Grace Manubay, DC Office of the State Superintendent of Education; Lauren Pyle, Environmental Educators of North Carolina	Saturday, October 15	9:20am	10:00am	Traditional Presentation	in-person
A Collective Joy and Wonder: Pathways Towards Nature Partnerships	Joy and wonder are both powerful phenomena related to educator and student outdoor experiences. The opportunity to share this joy and wonder within a community has significant implications for research and practice. Join us as we explore the role of a collective joy/wonder and its impact on our nature connection.	Steph N. Dean, George Mason University; Andrew Gilbert, George Mason University	Saturday, October 15	10:30am	11:10am	Roundtable Discussion	in-person
Case-study Findings of Schoolwide Initiative to Expand Teaching Outdoors	Discover the key findings of a 2021 case study on a school-wide initiative to expand teaching and learning outside among middle-school students and teachers (grades 6-8). Findings and recommendations focus on outdoor learning pedagogies, comfortability in the outdoors, social-emotional benefits, collaborative learning, interest in STEM, and COVID-19 impacts.	Steve C. Kerlin, Stroud Water Research Center; Nanette Marcum-Dietrich, Millersville University of Pennsylvania; Mandy Nix, Stroud Water Research Center	Saturday, October 15	10:30am	11:10am	Traditional Presentation	in-person
Creating Climate Leaders: High School Students as Climate Education Mentors	With the support of eeBlue, FGCU's Project WATERS trains Southwest Florida high school students, the Youth Against Climate Change, as mentors to underserved middle school students in 21st Century Learning Community Centers. Join us to learn how we are supporting tomorrow's climate advocates by developing their expertise and leadership skills.	Lilli Ganstrom, FGCU; Heather Skaza Acosta, Florida Gulf Coast University; Jennifer Jones, FGCU	Saturday, October 15	10:30am	11:10am	Traditional Presentation	in-person
Developing Environmental Literacy through Civic Engagement	The Pathways of Public Service and Civic Engagement provides an action-oriented structure for civic engagement. Learn about this framework and how to use it to involve students in civic action. I will discuss assignments structured around this framework to help students engage with environmental issues in a variety of settings.	Shamili Ajaonkar, College of DuPage	Saturday, October 15	10:30am	11:10am	Traditional Presentation	in-person
Diversifying Land Conservation Through Place-Based Education	For much of its history, land conservation has been largely by and for wealthy white landowners. Join us to hear how Southern Oregon Land Conservancy is leveraging education partnerships and programs to make land conservation accessible and meaningful for diverse audiences, and to share your own experiences and insights.	Tara Laidlaw, Southern Oregon Land Conservancy	Saturday, October 15	10:30am	11:10am	Roundtable Discussion	in-person

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Gettin' the Bugs Out: Assessing Interpretive Programs in Non-Formal Settings	Assessing interpretive programs can be a challenge and proper assessment of informal programs often falls to the wayside. Join the Interpretation leadership team from the Butterfly Pavilion in learning about evaluation techniques and putting them into practice on the floor.	Caroline McIver, Butterfly Pavilion; Calais LaJeune, Butterfly Pavilion	Saturday, October 15	10:30am	11:10am	Traditional Presentation	in-person
Nature-based Education in an Urban Setting	How might students in urban schools connect with nature? Which challenges are real and which are just barriers of imagination and determination? Come discuss with a school leader whose San Antonio students explored their place through an online curriculum that ignited a ripple effect of connections to community and nature.	Amanda McMickle, Cibolo Center for Conservation; Sharon Laidlaw, Teton Science Schools	Saturday, October 15	10:30am	11:10am	Roundtable Discussion	in-person
Same Goal, Two Approaches: Environmental Literacy Capacity Building in Virginia	Take a dive into the community engagement process as we share the "glows" and "grows" of two approaches for developing a district Environmental Literacy Plan. Lessons include communicating the process, raising questions for measuring success, and strategies for expanding inclusive and equitable access to local natural spaces.	Jeanne Jabara, Prince William County Schools; Melinda Landry, Prince William County Schools; Meredith Dash, Alliance for the Chesapeake Bay	Saturday, October 15	10:30am	11:10am	Traditional Presentation	in-person
Uncovering the Impacts of EIW on Adolescents' Perceptions on Local Marine Issues	Museums and aquariums provide a good environment to study how EIW constructed by previous knowledge, and culture, affects adolescents' learning experience concerning complex environmental issues, and the interpretation or awareness of these issues. This project targets adolescents who visit museums and aquariums internationally seeing how EIW affects their learning of local marine issues.	Shu-Min Tsai, Oregon State University	Saturday, October 15	10:30am	11:10am	Roundtable Discussion	in-person
Empowering Children for Global Climate Change Through Local Action	Engagement and empowerment of children at primary and secondary levels are essential in this time on Earth. Educating for change is essential for kids all over the world, to survive and to thrive. This session will look at regional perspectives on child-centered, hands-on learning for a new and more sustainable global society.	Donna Lynn Goodman, Donna Goodman Productions, Earth Child Institute, Ecomasters; Sheri Soyka, Nysmith School, Soyka Consulting; Kimi Waite, NAAEE CEE Change Fellow; Vince D Meldrum, Earth Force	Saturday, October 15	10:30am	12:00pm	Symposium	in-person
Engaging Youth in Learning Through Hands-on Outdoor Environmental Education	Ever wonder how you can get students more engaged in the learning process? Join us as we share about our youth outdoor-education programming. Working with high school students across the state of California, we work to empower students to become critical thinkers, stewards of their environment, and strong community members.	Allie Dumas, Center for Land-Based Learning; Morgan Caudill, Center for Land-Based Learning	Saturday, October 15	10:30am	12:00pm	Hands-on Presentation	in-person
Exploring the Urban Heat Island Effect with Citizen Scientists	In this hands-on workshop, we will explore strategies to get citizen scientists involved in designing and implementing an investigation of surface temperature and the urban heat island effect in their communities and in identifying effective strategies for building neighborhood resilience in the face of extreme heat events.	Sarah Slack	Saturday, October 15	10:30am	12:00pm	Hands-on Presentation	in-person
Nature to Your Doorstep through NASA GLOBE Citizen Science	The NASA GLOBE (Global Learning and Observation to Benefit the Environment) Project, Nature to Your Doorstep, brings NASA citizen science alive through learning explorations designed to engage learners as citizen scientists. Learners of all ages will investigate their world as they make observations, ask questions, and collect environmental data to benefit their community.	Tina Harte, NASA Langley	Saturday, October 15	10:30am	12:00pm	Hands-on Presentation	in-person
Schoobio: Sparking Student Civic Engagement to Increase Biocultural Diversity	Through a new global curriculum, Schoobio, middle and high school students experience place-based, transdisciplinary activities culminating in their advocacy for biocultural diversity on their school grounds. Attendees will explore the curriculum activities, focusing on what constitutes an ecological school ground that reflects the cultural diversity of their students.	Shari L. Wilson, University of Wisconsin-Stevens Point	Saturday, October 15	10:30am	12:00pm	Hands-on Presentation	in-person
Story Stone Play: Building Intimacy with Nature through Storytelling	By sharing stories about the world we see around us, we bond with each other and intimately with the earth itself. Story Stone Play can inspire these stories and nature connection. Each participant will create their own stone story and leave with a practice inspired by ancient approaches and modern science.	Cyndera Quackenbush	Saturday, October 15	10:30am	12:00pm	Hands-on Presentation	in-person
Sustainable Polymers: New Curricula Integrate Environmental Education and Civic Engagement	New science curricula (Grades K-2, 3-5, 6-8, 9-12) use effective science pedagogy to provide young people opportunities to explore the prevalence and impacts of plastics in everyday life, learn about emerging work on sustainable bioplastics, and plan authentic projects to help mitigate environmental impacts in their communities.	Martin Smith, University of California, Davis; Steven Worker, University of California, Agriculture and Natural Resources	Saturday, October 15	10:30am	12:00pm	Hands-on Presentation	in-person

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Title	Summary	Participants	Date	Start Time Mountain Standard Time	End Time Mountain Standard Time	Session Format	Delivery Method
<p><i>Arizona does not observe Daylight Saving Time. All session times are indicated in Mountain Standard Time; Mountain Standard Time is equivalent to Pacific Daylight Time.</i></p> <p><i>This is a preliminary schedule; sessions, times, and presenters are subject to change. The final schedule will be available through the conference platform when it launches in October. The platform includes the opportunity to add sessions to your calendar.</i></p>							
Critical Zone Science: Where Research Meets Education	Critical Zone Science is an emerging field that studies the processes taking place between the earth's Treetops and Bedrock. In this session we will delve into what Critical Zone Science is and how an interdisciplinary team of researchers and educators are working collaboratively towards its advancement.	Sarah Fisher, National Great Rivers Research & Education Center	Saturday, October 15	11:20am	12:00pm	Traditional Presentation	in-person
Cross-Sector Partnerships that Facilitate Meaningful Youth Engagement in Climate Justice Efforts	Join EcoRise to learn how cross-sector partnerships can facilitate meaningful youth engagement in community resilience and climate justice efforts through a case study of EcoRise youth programs including the Austin Youth Climate Equity Council and the San Antonio Mayor's Youth Engagement Council for Climate Initiatives.	Brittany Jayroe, EcoRise	Saturday, October 15	11:20am	12:00pm	Traditional Presentation	in-person
Engaging Diverse Young Adults in National Parks: A Community Study	Urban national parks are seeking new and unique ways of increasing the diversity of young adult engagement in national parks, particularly through tech use. These findings are particularly relevant for researchers, evaluators, and educators interested in learning more about how community partners, national park staff, and youth think about the parks as spaces for all young adults.	Monae Verbeke	Saturday, October 15	11:20am	12:00pm	Traditional Presentation	in-person
Juntos We Push Forward: Youth Action for Climate Resilience	Learn how we adapted a long-duration youth program on climate resilience into a shorter, action-oriented module embedded in leadership programming for Latinx youth. Featured activities address extreme heat and climate justice. We'll share data from both programs that underscore how informal education on climate resilience can inform youth-led community action.	Victoria Triana, UNC Institute for the Environment; Sarah Yelton, UNC Institute for the Environment; Kathleen Gray, UNC Institute for the Environment	Saturday, October 15	11:20am	12:00pm	Traditional Presentation	in-person
Scaffolding Environmental Decision-Making by Integrating Scientific Argumentation and Democratic Deliberation	Communities use scientific evidence as well as socio-political considerations to make decisions about socio-scientific issues and environmental controversies. We present a learning sequence in which students interpret scientific data behind an environmental issue and then integrate this analysis with social, economic, and political perspectives to deliberate and decide on solutions.	Yun-Wen Chan, Texas State University; Michelle Forsythe, Texas State University	Saturday, October 15	11:20am	12:00pm	Traditional Presentation	in-person