

2021 NAAEE Conference—Concurrent Sessions Preliminary Schedule

Title	Summary	Presenters	Date	Begin Time (Eastern Daylight Time)	End Time (Eastern Daylight Time)	Session Format	Presentation Mode
<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 mid-September. The platform includes the opportunity to add sessions to your calendar.</i></p>							
On-Demand (Prerecorded) Sessions							
A Framework for Supporting the Development of Botanical Literacies in Early Childhood Education	Botanical literacies in young children involves developing knowledge and curiosity about plants and their environments. This study explored young children's knowledge and attitudes of the flora in the native bushlands on their school grounds. The results of this research led to the development of a framework for developing botanical literacies in ECE.	Kimberley Beasley, Murdoch University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
A Model For Engaging Teachers On Public Lands	GMCFN's The Restoring Ourselves, Restoring Our Lands (ROROL) program grounds in place-based-service-learning and classroom-practical mindfulness techniques, and empowers educators to examine our role in equitable access to public lands.	Kelsey McNicholas, Georgia Mountains Children's Forest Network	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
A Model For Engaging Teens On Public Lands	'Cultivating partnerships and providing universally accessible outdoor education experiences that connect people of all ages and backgrounds to nature'	Kelsey McNicholas, Georgia Mountains Children's Forest Network	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Activating Youth to Engage Their Communities in City Climate Action Plans!	Join EcoRise to hear about the inaugural year of the San Antonio Mayor's Youth Engagement Council on Climate Initiatives. Through the lens of environmental justice, learn how students tapped into the history of their city and its policies to uncover actionable steps to engage their community in climate action.	Kristi Hibler-Luton, EcoRise; Sharon Huerta, EcoRise	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Backyard Nature Journaling: Improving Mood and Environmental Literacy during the COVID-19 Pandemic	The COVID-19 pandemic left many residents isolated inside their homes without outdoor activities. Nature journaling can connect residents to nature from the safety of their backyards. Topics covered in this session include successes and lessons learned, technology used, and survey methods to measure knowledge gain and mood improvement.	Krista Stump, University of Florida	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Beat the Blues & Go Green: University Partnerships Preventing Marine Debris	It's more than just campus clubs! The National Oceanic and Atmospheric Administration Marine Debris Program will share success stories from impactful higher education partnerships across the country. The experiences of collegiate advocates working to keep the sea free of debris will inspire and uplift anyone engaged in post-secondary environmental education.	Alexandria Brake, NOAA	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Beyond the Blue Bin: School-based action for young environmental leaders	Meaningful student engagement and stewardship action are overarching goals of Inside Education's environmental education programs. Over the last decade we have supported hundreds of student-led initiatives at schools in urban, rural and indigenous communities. This session will share how we enabled school-based action through education and give you the inspiration you need to do the same!	Kathryn Wagner, Inside Education; Laura Pekkola, Inside Education	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Connecting To Nature At Home Through Observation And Storytelling	At the 2021 Equinox Storytelling Summit, participants from across the state of Wisconsin gathered to hear stories of change in the natural world. We built connections between communities through sharing stories that demonstrated growing connections to nature, and used a digital format to encourage place-based learning and scientific storytelling.	Rudy Molinek, University of Wisconsin-Madison	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Creating a Statewide List of Online Field Trips & Classroom Visits	At the onset of the COVID-19 pandemic, many EE-oriented organizations transformed their field trip and outreach programs into virtual formats. In August 2020, a group of educators collaborated with Nebraska's department of education to create an online statewide list of offerings available to schools for the upcoming year and beyond.	Jack Hilgert, Nebraska Forest Service	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Creating Water Literate Youth Through WaterStar Certification	When the pandemic shut down schools in 2020, Project WET was forced to re-imagine hands-on education. It made the most of this situation by focusing on creating a WaterStar certification program for schools and organizations with the goal to create a more water literate society.	Julia Beck, Project WET Foundation	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Creating Waves in Marine Education: Teaching Resources and Hands-On Activities	NAMEPA's K-12 education programs demonstrates the importance of protecting the marine environment and how each of our lives are intertwined with the health of our planet. Participants will be guided through our free programs and materials exploring the myriad of informational lessons, PowerPoints, labs, species information sheets, and activity pages.	Molly Dushay, North American Marine Environment Protection Association (NAMEPA)	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Creative Environmental Education—Before You Head Out the Door	Join Senior Environmental Educator Kari Riddell as she offers insight on how to build respect and empathy for the environment before you take your K-3 students outdoors. Learn how building simple characters around you can make your outdoor time all the more valuable, and memorable!	Kari Riddell, Clean Foundation	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Cultivating University Students' Learning for Sustainability: An Ecology of Leverage Points	This presentation introduces an ecology of six leverage points that systematically help cultivating university students' learning for sustainability. Those findings are based on a case study research within a transdisciplinary university course, focused on engaging students, university staff and societal actors in responding to complex environmental and sustainability challenges.	Valentina Tassone, Wageningen University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Deliberation in the Classroom: From Reflection to Deliberation to Action	NAAEE's Environmental Issues Forums aim to transform how people discuss environmental issues and collaborate to find common ground for action. This session shows how this tool can be used with undergraduate and graduate students, creating classrooms where students learn how to navigate values-based conversations and find ways to act on complex environmental	Hillary Marie Mason, University of Colorado Denver; Melanie Armstrong, Colorado Alliance for Environmental Education; Christine Jie Li, University of Missouri	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Developing leaders through mentoring in environmental education	This article is geared towards substantiating the claim on the importance of environmental education in building leaders for the present and future generation. Emphasis was laid on the integral role mentorship program plays in developing effective environmental leaders.	Norris Erhabor, University of Benin, Nigeria	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Discoveries in the Virtual Field: Bringing Marine and Estuarine Field Experiences to Learners Everywhere	COVID disrupted field-based science education for thousands of students, schools, labs and universities. This project collaborated across 4 states to build virtual field science and expand access to marine science education. Modules include variety of topics and address pandemic programming, digital literacy and climate science education.	Justin Hougham, University of Wisconsin-Madison; Zoe Goodrow, Upham Woods Outdoor Learning Center	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Diverse Voices In Green Careers: A Model for Inspiring Change	As environmental educators, our work sets the foundation for entry into green careers. However, lack of representation within professions represents a significant barrier. PLT is developing resources that share first-person stories from diverse professionals. Learn about the partnership model being employed and how this work is inspiring young people.	Lydia Kidane, Project Learning Tree	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Does What I Do Make a Difference in the World?	Knowing our connectedness in the world deeply impacts our shared future. This engaging series of short films and curriculum examine the ripple effects we make, by shedding light on our role in nature and society. Through science, Indigenous wisdom, and activism we address the question, Does What I Do Matter?	Rose Madrone, Connectivity Project	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Education for Sustainability Equals Educating for the Future	Education for Sustainability professional learning workshops have enhanced the classroom and online learning experience for hundreds of thousands of students all over the world. In this Bright Spot the Children's Environmental Literacy Foundation will explore their successful Education for Sustainability programs that prepare students for an unknown future.	Lisa Mechaley, Children's Environmental Literacy Foundation	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand

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Effect of Mindfulness Activities on Environmental Education and Interpretation University Students	Stress is a common occurrence in education-related fields, but mindfulness can help. Regular practice of five to ten minute activities reduced stress in environmental education and interpretation practicum students. Using a variety of mindfulness activities provided the opportunity for all participants to find mindfulness practices that were effective for them.	Ellen Dolph	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Engaging Students in Architecture to Promote Green Career Pathways	Dream in Green has developed a model partnership with a local university to promote architecture and design as viable STEM disciplines for high school students. This annual project not only promotes hands-on learning but provides insight into Green Career pathways by tying in climate change and climate equity	Barbara Martinez-Guerrero, Dream in Green; Alexandra Ender, Dream in Green	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Environmental Education and Interpretation for Youth in Turbulent Times in Belarus	Our organization together with U.S. Forest Service is initiating a project to support development of Jr. Rangers program in Belarus. Today Belarus is going through complicated rough period. Environmental education activities will help provide opportunities for students to practice key skills that will prepare them for active civic engagement.	Valeria Kitounova, Belarusian Association "Country Escape"; Darya Pukas, Belarusian Association "Country Escape"	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Environmental Literacy in Appalachia: A Cross-State Analysis	Our research analyzes how effectively Appalachian schools teach about the environment and their barriers to achieving environmental literacy. Through an established set of criteria, we looked at the state of environmental education in five Appalachian states. We found that effectiveness varies across states because environmental education is not a requirement.	Alexa Marotta; Emma Shannon, American University; Leah Estes, American University; Tatiana Bienvenu, American University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Equitable Green Opportunities for Youth: A Pathway to Green Careers	Students and program leads* will share about the pilot year of Equitable Green Opportunities for Youth in Highline, a new paid and credited summer internship for high school students. EGOYH increases access for underrepresented youth to careers in green sectors. *Pacific Education Institute, Highline School District, Greenway Trust.	Becca Kedenburg, Mountains to Sound Greenway Trust; Roberta McFarland, Highline Public Schools	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
FAU RISE: Research Institute - Sustainability & the Environment	FAU RISE is a nationally replicable Youth Participatory Action Research (YPAR) model that showcases the opportunities available to environmental education institutions that can provide direct service field experiences to high school students. RISE develops partnerships, funding, & strategies to develop environmentally literate citizenry by connecting students with research-based field experiences.	Gregory Goebel, FAU Pine Jog Environmental Education Center; Christopher Andrew Hill, FAU Pine Jog Environmental Education Center	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Forest Smart: Exploring the Forest Literacy Framework	Learn about a new Forest Literacy Framework that supports environmental education and presents a parallel pathway to NAAEE's Guidelines for Excellence. Participants explore 5 Hot Topics and receive access to free, online implementation resources for teaching about trees, forests, and the broader	Danika Strecko, Sustainable Forestry Initiative; Rocco Saračina, Sustainable Forestry Initiative	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Fostering Sense of Place in Campus-based Field Courses	In light of mounting challenges for travel-based field courses, campus-based courses have emerged as an alternative. Research on campus-based field courses shows improvements in student outcomes but fails to regard the significance of students' surroundings. This research asks how campus-based field courses foster a sense of place in undergraduate students.	Jeannie Yamazaki	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Grad students drive environmental behavior change at the community level	Increasing knowledge about environmental issues normally isn't enough to drive behavior change, but tapping into social psychology can be effective in shifting behavior. This Bright Spot celebrates how we can teach concepts of community-based social marketing that students can take into their communities and	Katie Burke, Kansas State University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Innovative Strategies in South Asia that Inspire Environmental Stewardship among Youth	During the lockdown, Earth Day Network India organized more than 20 webinars on Environmental Literacy, how to motivate students while teaching online, with over 75 inspiring panelists from India and South Asia from schools, colleges, NGOs, to present effective methodologies to build environmental stewardship. I would like to present these.	Neela Majumdar, Earth Day Network India	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Interested in Inclusive Community Engagement? Check Out These Resources!	Promising practices for authentic, inclusive community engagement abound. Tune in to learn about NAAEE's ee360 resources that support individuals and organizations exploring how culture, identity, power, and privilege (and more!) influence their work.	Susana C Mateos, Antioch University New England; Luciana Ranelli, Antioch University New England; Emily Schuttenberg, Antioch University New England; Cynthia Espinosa Marrero, ee360; Jean Chimbirima Kayira, Antioch University New England; Libby P McCann, Antioch University New England; Bora Simmons, National Project for Excellence in Environmental Education; Anne Umali, NAAEE	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Introducing Teach ME Outside! An online tool for Maine educators	This session will introduce the Teach ME Outside website and a new EE resource directory for Maine. We will showcase open-source tools available to build capacity for environmental learning for all Maine educators and describe the collaborative process by three statewide organizations to develop this exciting resource.	Alexandria Brasili, Maine Mathematics and Science Alliance; Olivia Grist, Maine Environmental Education Association; Ruth Kemish-Alen, Maine Mathematics and Science Alliance; Nathan Broadbus, Nature Based Education Consortium	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Kupu's Natural Resource Professional Development Training Series For Hawaii's Educators	Kupu's Natural Resources Professional Development program uses a work-based learning approach to enhance educators' knowledge of different natural resource careers and topics. Each educator's journey is individually curated to expand on their interests and help fill their knowledge gaps so that they can better inspire and support their students.	Paahana Kincaid, Kupu	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Learning from the COVID-19 Infodemic to Address Environmental Information Gaps	Public health practitioners are learning from research in health communications, crisis communications, behavioral science, and content moderation to reduce misinformation, fight disinformation, and address information gaps during the COVID-19 pandemic. Some lessons learned are being applied to address inequities in information access around climate change and environmental health.	Jessica Huang, Meedan Digital Health Lab	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Leveraging Creativity for Hands-On Environmental Education Using a Co-Creation Approach	The session discusses innovative and co-creation approach for engaging secondary school students to identify environmental challenges and needs in their communities, develop solutions to the challenges by applying the knowledge they have acquired from science and arts courses in their classrooms, and implementing them with expert support through mentorship.	Adedoyin Adeleke, International Support Network for African Development (ISNAD-Africa)	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	Live
Meaningful Watershed Educational Experiences in Galveston Bay	Nonprofit leaders in environmental education will explain how to integrate hands-on STEM in classrooms, build leadership and advocacy skills, and increase environmental literacy through unique community partnerships.	Cindy Wleims, Galveston Bay Foundation; Karissa Laffey, Artist Boat	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
MyTree App for Tree Data Collection and Analysis	MyTree is a mobile app that allows students of all ages to explore the natural world, conduct field research, and contribute to a worldwide citizen science initiative. Using mobile devices, students assess the economic and ecological benefits of trees and produce data analysis reports in a simple, easy-to-read format.	Barbara McGuinness, USDA Forest Service; Susan M. Cox, US Forest Service	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Nature Begins in Your Backyard: A 4-H Virtual Activity Club	Join Maryland 4-H as we share an innovative model for overcoming traditional program access barriers, allowing youth to access highly engaging, interactive environmental education from their very own homes. Participants will leave with all the tools needed to launch your own virtual six week Nature in Your	Amy Lang, University of MD Extension; Elizabeth Hill, University of Maryland Extension, Kent County	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand

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Nature Connection in One Elementary School: Lessons Learned	Describes the experience of Mountain Village Charter School, a public charter school in NH (grades 1-8) that addresses the common core through Nature Connection and Montessori learning. Explores the successes and challenges of this school providing valuable lessons for the integration of nature connection in public elementary teaching.	Jamie Hannon, Plymouth State University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
NC Division of Air Quality: Vehicle Emissions Reduction Activities Program	The Vehicle Emissions Reduction Activities program provides supplemental education materials for Driver's Education programs in North Carolina. These educational materials focus on responsibilities of new/young drivers to protect their environment when driving as related to air pollution from vehicles. The focus: car choice, vehicle maintenance, driving habits and alternative transportation.	Annie Lee, NC DEQ	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Noticing Differently: Critically Reorienting to Place in Early Childhood Education	Educators will "notice differently" matters of equity and inclusion in place-conscious learning by repositioning themselves within multifaceted landscapes. Critically reflective exercises inspired by the "spiral of attunement", will reorient participants to place physically, intellectually, socially, and historically to support children's ecological belonging and environmental	Nancy van Groll, University of British Columbia; Annie Elizabeth Montague, University of British Columbia	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Online Environmental Education? Answering the Challenges of COVID-19	This presentation articulates how a partnership between a school district and a neighboring university designed an online professional development program to connect teachers and the environment at the height of the COVID-19 lockdown. We highlight how we overcame the seeming dichotomy of carrying out outdoor activities in an online context.	Andrew Gilbert, George Mason University; Mary Ann Settlemyre, Centreville ES-Fairfax County Public Schools	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Outdoor Youth Corps - Connecting Young Adults with Careers in Nature	Missouri Botanical Garden staff and participants will discuss the development of the Outdoor Youth Corps program and how it helps connect Saint Louis City youth with environmental careers, civic engagement, and leadership opportunities. This paid program gives young adults experience with careers and skills in sustainability and environmental stewardship.	Maggie McCoy, Missouri Botanical Garden; Bryanna Blackburn	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Partnering with Existing Frameworks to Foster Youth Environmental Literacy	How can we ensure that we are delivering relevant and practical professional education in a fast-paced world? Join UFIFAS Extension Agents Daniel, Emily, and Frank to learn how we can work together to merge resources, expertise, and frameworks to deliver the most impact.	Daniel Gonzalez, University of Florida/IFAS Extension; Emily Marois, UF IFAS Palm Beach County; Frank Dowdle, University of Florida/IFAS Extension	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Pathways to Green Careers: Increasing Representation in the Field of Sustainability	Using the EcoRise Building a Green Texas Project as a guide, collaborate with fellow educators to explore how partnerships, school-year field experiences, and internships can expand the learning environment beyond school walls, generating feasible and replicable action steps for building pathways to green careers in your community for underrepresented youth.	Brittany Jayroe, EcoRise	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Playful and Place-full Early STEM	Young children and their teachers create deeper connections to their communities and the natural world by demystifying the "STEM" acronym. Toddler to preschool-age children explore, play, wonder, and engage with STEM when educators incorporate loose parts, place-based education design principles, STEM tools and techniques, and risky play.	Erin Tanzer, Boise State University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Podcasts in the Classroom: Climate Change Lessons in High and Middle School	How can teachers and students use podcasts to learn and teach about climate change? MIT's award-winning TILclimate podcast created NGSS-aligned activities for high school and middle school teachers looking to make climate learning engaging, relevant, and solutions-oriented.	Sylvia Scharf	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Reconnecting to Place: Religion, Indigeneity, and Land Ethics	Science provides us with a map, but we need ethics to navigate this landscape. We argue that religious literature can provide rich, relevant resources for developing narratives and action-oriented environmental ethics. Our question: How can we think with religious traditions in order to expand the theory and improve community engagement?	Naama Sadan, University of California Berkeley; Ariel Mayse, Stanford University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Resource Watch: Data Literacy For A Sustainable Future	Resource Watch—a data platform from World Resources Institute—presents a new guide for teachers to incorporate data literacy into their curriculum. RW enables students to use global maps to explore and visualize environmental and sustainability issues through the use of overlays, charts, and other data visualizations.	Liz Saccoccia, WRI	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Restoring Connections: Nurturing Relationships with the More-than-Human World	How do we help all children – regardless of ability or background – develop a meaningful connection to nature which integrates both local natural and cultural history? This presentation highlights lessons learned from a collaborative project that brought together a non-profit, an elementary school, and a University to do just this.	Kathryn Lynch, Environmental Leadership Program, University of Oregon	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Schools In Parks: From The Screen To The Green	Bat costume? Check! Silly Nature Games? Check! Overhauling monotonous virtual professional development to produce an engaging wonderland of resources that actually gets learners outside? You betcha! Learn how North Carolina state parks, school districts and a university have partnered to ensure meaningful virtual and outdoor environmental education	Mary Meyer, UNC Chapel Hill; Randy Bechtel; Shelby Brown, UNC Institute for the Environment; Sarah Yellon, UNC Institute for the Environment	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
SEED: Social-Emotional Environmental Education Discovery 2.0	What started as a localized program has blossomed into a national hit, with over 7,000 YouTube views a month! Learn about the different components of SEED how nature centers and schools can partner up with this unique program that includes social-emotional and NGSS curriculum plus experiences in nature!	Jennifer Day Tariq, Douglas-Hart Foundation	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Stay Wild: Mapping 30 x 30 and Half-Earth	Conservationists around the globe are calling to preserve 30% of the globe by 2030 and half the earth by 2050 for biodiversity. In this session, you will learn how to engage students in mapping land units to bolster biodiversity and reach this bold conservation goal.	Melissa Wilson, Harvard University; Dennis Liu, E. O. Wilson Biodiversity Foundation	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
STEM Skills for Green Jobs	Learn about Green Jobs education resources and online professional development for formal and nonformal educators working with students aged 12–25. This session highlights student activities that teach about green jobs with hands-on experiences that practice essential STEM Skills.	Rachel Lang, Project Learning Tree; Ana Leimer, Sustainable Forestry Initiative/Project Learning Tree	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Taking a Break: Virtual Mindful Minutes for Students and Teachers	"Mindful Minutes" were designed to develop attitudes/beliefs related to instructional design and to have graduate education students use them to care for themselves (and their students) during COVID's stressful time and environment. Content and activities related to Mindset, Failure, Self-Care, Using Nature, and others were used to encourage student wellness.	Farah Vallera, Lehigh University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Teaching Environmental Justice Through a Community Soil Lead Testing Project	Your students can learn about environmental justice issues by directly participating in a community-based project that helps keep children safe from toxic lead exposure. Collecting soil samples to test for lead is an easy way for your students to make a difference in their community, and I can show you how.	Carme Nielsen, Cabrini University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Teens Tackle Light Pollution in an Urban City	The Adler Planetarium's Youth Organization for Lights Out (Y.O.L.O.) exposed high school students to raise awareness about the need for municipal change. With Civic Engagement and environmental justice in mind, we talk about the impacts of light pollution and what you can do from home!	Elisa Salgado, Alder Planetarium	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand

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The "From Slavery to Freedom Garden": Confronting the Past to Heal the Future	The Pittsburgh Parks Conservancy has partnered with the Heinz History Center to create an outdoor learning space that promotes understanding of the Black diaspora in the context of environmentalism. An Anti-Racist lesson rooted in historical context, and educational strategies meant to emphasize positive Black identity, will be shared.	Camila Tinsley, Pittsburgh Parks Conservancy	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
The Hurricane Resilience Curriculum: Connecting Communities and Environmental Science	An NGSS-aligned curriculum for hurricane-prone regions, Hurricane Resilience helps high school students explore how coastal risks are increasing as climate change strengthens hurricanes and tropical storms and produces more rainfall, how sea level rise increases the risk, and how our actions can help us be less vulnerable and more resilient.	Lisa Gardiner	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
The Learning Playground; Equitable Access to Restorative Learning Environments	The "Learning Playground" embraces nature connectedness, human connection, and emerging technologies to showcase virtual and physical environmental elements affiliated with enhanced mental, physical health and wellbeing, and improved resilience for student learning. Spatial cues support learners, allowing play, personalized learning, refuge, physical activity, human interaction to reinvigorate the learning setting.	Valerie Caruolo, Hord Coplan Macht; Ilijana Soldan, Hord Coplan Macht; Lisa Ferretto, Hord Coplan Macht	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
The Power of Connecting Arts & Environmental Education	Watch this presentation of integrated curriculum collaboratively designed by arts and science specialists alongside classroom teachers. The intersection of arts and environmental education supports students as they make meaningful connections, enrich their school community, and engage with both the creative and scientific process.	Ashley Anderson; Tiya Karaus; Kristen Bonner, Indian Hills Elementary School	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
The Power of Interdisciplinary Assessment to Promote Climate Education	Presenters offer an instructional model for engaging and evaluating 21st-century skills in the context of climate science. Sharing a performative task design for assessment, we will explore how literature can help students understand climate change impacts and strategize appropriate solutions through creative, cross-disciplinary collaboration.	Rebecca Young, Cognia	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Using Art to Evaluate Programming for Consistent Transformative Learning	In this session, you will learn how digital collage can be used as an evaluation tool for environmental or sustainability learning experiences and explore the common themes emerging from the collages can be applied in programs, using an undergraduate environmental science course as an example.	Jacqueline Kolb, Arizona State University	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Using Nature to Develop a Sense of Place	In this session, we will explore and observe our own local natural area to begin developing a deeper sense of place so that we can identify our ecological address. Our explorations will take us outside of the front doors of our homes, schools, nature centers, and more.	Kirk Evans, Allen ISD STEAM Center	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Using Videos to Communicate Science to New Audiences	Whether your audience is students, other scientists, or the general public, videos help scientists communicate like never before. This bright spot will focus on tips and tricks for effectively communicating through videos. It will discuss using equipment and recording devices, video editing software, scripts, and	Dionna Buccì, Fairfax County Stormwater Planning; Eric Collins, Fairfax County	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Using Youth Climate Summits to Inspire Climate Action Projects	Join The Wild Center's Youth Climate Program to learn how youth across the country and around the world are convening Youth Climate Summits and creating Climate Action Plans & Projects to implement in their schools and communities. Free resources including access to Summit Toolkit and join our growing community of practice!	Jan Kretser, The Wild Center	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Watershed Education When Students are on Your Screen	With funding to bring watershed-based STEM education to our local 21st Century Community Learning Center, we made a splash with virtual teaching and learning. Our summer program as well as spring after-school program introduced watersheds then used the Winter Salt Watch Program to conduct a Meaningful Watershed Educational Experience (MWEE).	Wendy Kedzierski, Creek Connections - Allegheny College	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
What is Environmental Action Civics?	Join Earth Force for a quick, fun overview of Environmental Action Civics. What is it and why should you care? How can you get started? You'll learn this, and where to find great resources to begin integrating civics into EE programming.	Alexis Thorbecke, Earth Force; Grace Edinger, Earth Force; Alyssa McConkey, Earth Force	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Wildlife Observation: Designing for Immersive Experiences	Truly immersive "wildlife" places visitors into the animal habitat. There is no one-size-fits-all solution for orchestrating encounters—place, habitat, seasonality, and the wildlife in different seasons. We will discuss how designers can integrate site and structure to work together programmatically, structurally, ecologically, and aesthetically.	Andrew Duggan, Studio Outside	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
YouCAN: Amplifying Climate Education through Collaboration	Atlantic Canada faces unique climate challenges in the years ahead, and educating and empowering our youth to be prepared for their future is paramount. Learn about how 3 unique organizations across 4 provinces are working in collaborative partnership to address this challenge, together.	Haley Guest, Clean Foundation	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Youth Leadership for a New Decade of Ocean Conservation Action	Dive into lessons learned and highlights from OceanEcho 30x30 - a new youth-driven campaign to elevate youth voice in support of protecting 30% of the ocean by 2030. Hear from EarthEcho International's staff and youth leaders about their experience launching this global initiative in a virtual environment.	Sean Russell, EarthEcho International	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
Zooming in on Successful Online Programs	Have you ever observed another educator and felt inspired by a new idea? Join us to discover a new website featuring examples of evidence-based practices from online programs producing positive learning outcomes. We will highlight a few creative ideas and share the link for you to explore for further inspiration.	Eileen Merritt, Virginia Polytechnic and State University; Malia Pownall, Virginia Tech; Emily Thorpe, Virginia Tech; Janine Garcia, San Antonio River Authority; Troy Frenshley, University of North Carolina at Wilmington; Robert B Powell, Clemson University; Marc Stern, Virginia Tech	Monday, October 4– Friday, October 15	24-hour access		Bright Spot	On Demand
A Community-Based Approach: Authentically Connecting Students to Career Pathways	We will describe an approach to recruit and train STEM professionals in a rural community to engage middle school youth using programmable environmental sensors and 3D printing technology to design solutions to real-world problems. The result? Authentic connections to STEM careers in their community.	Emily Snode-Brenneman, UCAR (University Corporation for Atmospheric Research); Melissa Rummel, University Corporation for Atmospheric Research; John Ristvey, UCAR	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Barriers to Environmental Education in the Classroom in Kansas	This project used a large survey to identify barriers PK-12 teachers perceived in implementing environmental education in their classrooms. Results of the survey were compiled into a filterable public data set open for EE organizations to use to create targeted resources to increase the number of teachers integrating environmental topics.	Matthew Clay, Fort Hays State University; Katlyn Yohn	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Climate Change Discourse On Indonesian Integrated Curriculum K-6 Science Standards	Standards have the power to shape students' talking, thinking, and acting toward climate change. This study explores the discourse of climate change on Indonesian K-6 thematic science standards. This integrated curriculum connects Indonesian language, social studies, science, and mathematics, which bring students' real lives closer to the classroom space.	Melvina, Syracuse University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Educating and Empowering Students for Action: NJ Student Climate Challenge	This session highlights the New Jersey Student Climate Challenge, a pilot program that seeks to support students and teachers to avoid climate change education obstacles and to engage in youth-driven climate action projects. Lessons learned from our ongoing efforts to encourage climate-focused digital storytelling and action projects will be shared.	Andrea Drewes, Rider University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand

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Empowering Environmental Education: A Trauma-Informed Approach	Climate change and environmental justice can be difficult topics to discuss. Unfortunately, this can cause learners to disengage from these topics altogether. This session will give environmental educators an overview of trauma and the stress response, and how they can help make these challenging conversations less overwhelming and more empowering.	Melissa Boo, Common Ground Creations	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Empowering Girls in STEM through a Marine Science Spring Break Camp.	The collaboration of a local nonprofit, school district, and university to recruit and develop a week-long marine science camp for underserved high school girls during spring break.	Molly Nation, Florida Gulf Coast University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Enhancing Graduates' Hope and Self-efficacy through an Action-orientated Master Program	Facing the overwhelming threat of climate change, the cultivation of hope and self-efficacy may strengthen climate action. Through a two-year action research, we will share how we designed and improved an eighteen-week curriculum in a master program to raise graduate students' hope and self-efficacy in taking climate action.	Yu-Chi Tseng, National Taichung University of Education	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Environmental Education in Appalachia: A Place for Advocacy and Civic Engagement	How can EE offer a space for students to hone the advocacy and civic engagement skills essential to addressing the complex environmental issues facing Appalachia? Examine current efforts being made by educators in the region and imagine new opportunities for fostering collective action and creating sustainable and just communities.	Emily Thorpe, Virginia Tech	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Everyday Economics and Ecology: An Innovative Science Communication Tool	In order to aid a better understanding of ecology and conservation science, we draw analogies from everyday economics such as the variation in hotdogs to explain speciation, wealth management portfolios to the diversity of forests and so on. This tool bridges the gap between scientists and environmental education.	Arjun Kamdar, WWF-India	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Exploring Birds: An Integrated Elementary Science Approach for the Pandemic	A partnership between a university and a local elementary school provided every 5th grader an opportunity to participate in an in-depth and integrated program on birds. Equipped with field guides and techniques in nature journaling, students explored birds at school and home allowing for more time outside during the pandemic.	Ashley Campbell, West Texas A&M University; Crystal Hughes, West Texas A&M	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Exploring Engaging Learning Experiences in a Virtual Climate Change Resiliency Program	We explore integrating social activities into program content delivery and the use of learner-centered activities to build social connections among participants in the virtual environment. We will highlight lessons learned implementing our Climate Change Resiliency program and discuss virtual components that can provide engaging, interactive, and meaningful learning.	Cynthia Nazario-Leary, University of Florida, Center for Precollegiate Education and Training	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Igniting Student Change Through Advocacy Packets	Advocacy Packets are a new resource from EARTHDAY.ORG created by students, for students, to walk them through the process of building support and advocating for an environmental action project in their school or community. Join us to receive free resources and share ideas on student capacity building.	Rachel Weisbrot, Earth Day Network	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Mapping Local FEW Systems using Community Organizations as "Data Brokers"	This poster shares findings from a Public Participation in Science Research pilot project to engage citizens and generate data about local food, energy, and water (FEW) systems. A case story illustrates successful strategies that facilitated citizen engagement, and highlights the role of food banks as significant resources and data brokers.	Eisabeth Roberts, STEM & Leaf LLC Learning Consultants	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Nature Journal Kits	Creating learning kits focused on our Junior Naturalist Program which include resources - from field guides to hand lenses - to support nature exploration and study by youth and their families during continued social distancing efforts.	Cressita Bowman, Catalina Island Conservancy	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Nature Journaling for Agriculture Undergraduate Students	Nature journaling is a tool that can foster a connection to the natural world, enhance attention to detail, and encourage mindfulness during times of stress. In a graphic design class for agriculture students, the benefits of nature journaling are extended to college-aged students enrolled in an agricultural	Katie Burke, Kansas State University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Place-Based Teacher Education: A Self Study of My Own Experiential Learning Journey	Place-based education (PBE) is a learning model that recognizes the value of engaging students with their local ecological and social community. Through a self-study on PBE, I reflect on my own journey of facilitating student-place connections. I explore and analyze successful strategies as well as challenges that I	Steph N. Dean, George Mason University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Pollination in Your Backyard: An App to Support Personalized, Place-based Family Learning	During the COVID-19 pandemic, many informal learning sites closed per state regulations, limiting families' science learning experiences to their homes and backyards. Our research team designed and implemented a "backyard app" focused on pollination in order to foster families' explorations of pollination happening in their own homes and neighborhoods.	Lucy R. McClain, Shaver's Creek Environmental Center - Penn State University; Yu-Chen Chiu, Penn State University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Pupils' Digital Stories for Climate Crisis: "I Have a Story for the Earth"	In this project, supported by European Union Erasmus+, pupils created digital stories followed by a climate change education. Pupils, aged 12 and 13 years old, addressed the reasons and impacts of climate change by considering past, present and future. Furthermore, they addressed solutions for climate change and voiced their hope for Earth.	Birgul Cakir Yildirim; Gulz Karaarslan Semiz, Aĝn İbrahim Çeçen University, Department of Mathematics and Science Education, Aĝn, TURKEY	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Quantifying the Impact of Education on Individual Carbon Emissions	Eugene will share outcomes from a recent paper that documents how education, if well designed, can be as effective in reducing carbon emissions as other solutions such as rooftop solar or electric vehicles. He'll outline the key educational elements critical to the success of such programs and provide examples.	Eugene Cordero, San Jose State University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Reflection on Marine Plastic Litter: Perspectives of Memorable Tourism Experiences	Marine plastic waste recycled and reproduced customized souvenirs can evoke and preserve travel memories. Through tourists actively collecting and picking up plastic bottles in exchange for souvenirs at discounts, it is a sustainable strategy that differs from beach cleaning and plastic reduction.	Yi-Hsuan Wang, Taiwan International Ocean Youth Advisory Committee	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Student Agency Through Connected Action: The John Muir Awards	How can local actions equip learners with skills and awarenesses to be agents of their own settings? British educators in all grades engage learners through John Muir Award projects. Come see interviews and photos from English schools, and discover tools to engage learners with the places in which they live.	Tim Thomas, James Madison University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Taking Science Education Outside: Student Perceptions of Outdoor Classroom Design	Are you designing an outdoor classroom to allow your students to spend more time outdoors while receiving hands-on education? Come learn what makes an ideal outdoor classroom for urban middle school students. Mixed methods analysis reveals student perceptions on learning outdoors, classroom design and preference on incorporating native plant gardens.	Victoria Burnett, University of Missouri-Columbia; Christine Jie Li, University of Missouri	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Telling Green: A Beautiful Environmental Partnership	Through a partnership between Children's Environmental Literacy Foundation (CEL) and a local Environmental Science Title I school in Houston, teachers were engaged in project-based learning support, while students delivered creative environmentally-themed projects to a panel of community leaders. The partnership also inspired a new CELF program to prepare students for Green Careers.	Amanda Brown, Children's Environmental Literacy Foundation; Lisa Mechaley, Children's Environmental Literacy Foundation	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
The AQ-IQ Contest for Seventh Grade Students	The N.C. Division of Air Quality AQ-IQ Contest is ten years old. The contest has evolved from a regional poster contest, to a statewide contest with four project types, special categories, prizes, and a recognition event. We are sharing the transformation: lessons learned, tools of success, and things to	Keith Bamberger, NC Division of Air Quality	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand

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The Impact of COVID-19 on Environmental and Outdoor Science Programs	In April 2020 and April 2021, we conducted two surveys to learn about the impact of COVID-19 on the environmental and outdoor science education field. Results revealed devastating setbacks and financial losses, as well as innovative responses to adapt to the moment. This presentation highlights key takeaways for moving forward.	Melissa Collins, Lawrence Hall of Science, University of California, Berkeley; Aujanee Young	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Uncovering the impacts of environmental identity on people's awareness on local marine issues	Museums and aquariums provide a good environment to study how EID constructed by previous knowledge, worldviews, and culture affects 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 EID affects their learning of local marine issues.	Shu-Min Yang, Oregon State University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
University-wide Online Citizenship Education under Pandemic – A Case from Japan	How can we effectively continue educating students for citizenship and sustainability "online" under the pandemic? What challenges have faculty and students faced and what possibilities have we discovered for improving university citizenship education in future? This poster will explore these questions based on a case of Tokai University in Japan.	Sachi Ninomiya-Lim, Tokai University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Using Model-based Climate Simulations in Secondary Science Classrooms: A Longitudinal Study	It is critical to support students' developing climate literacy; however, climate-related concepts can often be challenging for students to understand. Through an NSF-funded project, we engaged with secondary science teachers to create and implement an innovative, new, 4-week curriculum using investigations grounded in authentic NASA climate data and	Kimberly Nicole Carroll Steward, University of Nebraska- Lincoln	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Using Quantitative Biology to Increase Mathematical Competency at Community Colleges	Textbooks often lack local, relevant examples, potentially leaving students unengaged. Yet, educators are awash with data that can tell powerful stories. An NSF grant-funded project brings together teams of biology and math faculty who develop Open Education Resources (OERs). Learn to use the OERs with your own pertinent data sets.	Jennifer Lyon Adler, Maysville Community and Technical College	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Utilizing Camp to Spark Youth Involvement in Marine Citizen Science	Palm Beach County 4-H Marine Science Camp uses a learn-by-doing approach with hands-on activities. Youth explore marine science and learn about local marine citizen science projects to get involved and explore careers in the field. Campers visit a variety of marine habitats and observe how their actions affect the	Noelle Guay, UF/IFAS Extension - 4-H Youth Development	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Utilizing National Parks as Learning Resources	Learn about how to best leverage resources, experts, and materials available from public land agencies like the National Park Service in your curriculum design and experiential lessons.	James Fester	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Virtual Educator PD Provides New Opportunities	The Nebraska Forest Service coordinates Project Learning Tree and Project WET curricula in Nebraska. Online virtual educator professional development outlets has allowed NFS to expand their reach and impact throughout the state. This talk will help provide suggestions for other organizations looking to transfer PD into the online setting.	Jack Hilgert, Nebraska Forest Service	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
Wonder and Emergent Science Practices: Connecting With and Through Nature	This study utilized wonder as a means to engage children in an outdoor nature study. The evidence suggested that students strongly engaged in investigative science practices, and experienced opportunities for sense-making as well as critique. Importantly, wonder-framed investigation emerged as a vehicle for joy and connection within the classroom community.	Andrew Gilbert, George Mason University; Steph N. Dean, George Mason University	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
You Don't Need A Forest!	Well, obviously we all need forests... but you don't need a forest to connect children to the natural world. Learn how a single tree stump fostered a class's interest and compassion for our world's smallest creatures. Sparking a year long study.	Jessica Winston, Beginnings Nursery School	Monday, October 4– Friday, October 15	24-hour access		Poster Presentation	On Demand
A Green Future is Possible: Integrating Career and Environmental Education	The global crises we face necessitate the preparation of students for careers, jobs, and trades that support a green economy. During this session, we will focus on strategies to integrate career and environmental education with K-12 content areas to promote a more equitable, healthy, and sustainable future.	Doron Markus, San Mateo County Office of Education; Andra Yeghohan, San Mateo County Office of Education	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Air Quality Topics: How to get started, Resources, and Tips	Air quality is a less familiar topic to many teachers. As a result, teachers shy away from delivering air quality lessons. I will share lessons and suggestions for how to get started teaching air quality in your classroom.	Elizabeth Spike, AIM Program, Bryant Alternative High School, Fairfax County Public Schools, Virginia	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Arts Integration and Conservation: Bookmaking, Non-Indigenous Species, and Civic Ecology	This presentation demonstrates a comprehensive arts integrated life science unit, designed for the elementary/middle level, engaging students as civic ecologists in understanding non-indigenous species and conservation in local communities. Arts integration, an innovative educational strategy, promotes equity while engaging students in deeper learning through critical thinking, creativity and community.	Meghan Scribner, Side x Side Inc; Anne Ackerman, Side x Side inc.	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Breathing Outside: Mindfulness Activities for Outdoor Educators and Youth	This session offers mindfulness activities and peer-to-peer support for educators: refresh your mind, get outdoors, and connect with other educators about how to carry these activities to your setting. Together, we will share ways to venture outdoors confidently, safely, and joyfully with children in virtual and/or in-person	Abbey Palmer, Michigan State University Upper Peninsula Research and Extension Center - North Farm; Misty Klotz, Kallogg Biological Station; Ellen Koehler, MSU Tollgate Farm and Education Center	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Building a Foundation of Professional Development and Reflective Practices	How can nonformal organizations develop staff leadership, improve environmental equity, and create a culture of reflection? Hear from organizational leaders who have invested in intentional professional development practices for their employees and seen positive results. Come prepared to discuss your own organizational practices in small groups and create action plans.	Cindy Wilems, Galveston Bay Foundation	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Centering Justice and Identity – Building Inclusive Scientific Communities for Our Shared Future	Change agent and community leader Sprinavasa Brown shares how ELSO, Inc. is breaking down barriers and decolonizing science to make the outdoors and environmental education more inclusive, creating space for Youth of Color in science and nature with limited influence of Whiteness; the dominant culture that influences societal norms.	Sprinavasa Brown, ELSO, Inc.	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Connecting Environmental Education Concepts Through Geographic Information Systems	Geographic Information Systems (GIS) is a powerful technology that incorporates data collection, display and analysis, and methods of sharing data. This session will focus on how ArcGIS Online, Survey 123, and ArcGIS StoryMaps engage students in studying a wide range of environmental data and issues.	Judith Bock, More Than Maps	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Educating for Sustainability: Nurturing Learners Engaged in Creating Sustainable Communities	How can we partner with our students and communities to build a more sustainable world? Join us to learn about an approach to education that links inquiry and action, connects students to the human and natural communities they are part of, and nurtures the development of agents of change!	Emily Hoyer, UVM Tarrant Institute for Innovation Education; Aimee Arandia Østensen, Shelburne Farms	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Enhancing Environmental Education through Student-Centered Teaching Strategies	Shifting the focus from what instructors can teach to what their students can learn breathes new life into outdoor education programs. This session will share practical tips on how to reach your audience by asking better questions, connecting content to meaning, and providing more culturally-relevant instruction.	Sim Barrow, Fayetteville Public Schools; Brady Carman, Fayetteville Public Schools	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand
Increasing Comfortability to Teach Hands-on Climate Change Lessons	The pandemic delayed Project WET's plan in 2020 to build comfortability educators to teach about climate change. However, the pandemic opened the door to reaching more educators through virtual, hands-on trainings. Explore how to teach climate change in any discipline while engaging in hands-on activities in a virtual platform.	Julia Beck, Project WET Foundation	Monday, October 4– Friday, October 15	24-hour access		Hands-on Presentation	On Demand

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Mapping Climate, Equity and K-12 Environmental Education Programs	Across the country, thousands of organizations work hard to bring environmental education programs to K-12 students, yet how do we craft a larger strategy for systemic change? Join this session to learn how data visualization and mapping tools can spark new alliances, reveal gaps in access and accelerate climate justice.	Gina LaMotte, EcoRIse	Monday, October 4– Friday, October 15			Hands-on Presentation	On Demand
Personally Connecting to Cultural Responsiveness in Environmental Education	This session allows educators to explore personal biases and apply strategies to be culturally responsive no matter their teaching scenario. Activities are designed for participants to privately explore implicit biases and reflect on how to expand their	Jennifer Stadum, Montana Office of Public Instruction	Monday, October 4– Friday, October 15			Hands-on Presentation	Live
Teaching Beyond the Water Cycle with Water Footprints	Water resources are about more than the water cycle. It takes water to make food, energy and consumer goods. Educators and students might not always know about these connections but they have a large impact on our water use. Water footprints can help educators teach beyond the water cycle.	Kai Olson-Sawyer, GRACE Communications Foundation; Robin Madel, GRACE Communications Foundation	Monday, October 4– Friday, October 15			Hands-on Presentation	On Demand
The Ins and Outs of Wildflowers	The Power of Connection can be seen, heard, felt and tasted in the world of Wildflowers. Learn about Pollination- a flower's promise to the next generation - and become a botanical influencer!	Tracy Albrecht, Bureau of Land Management	Monday, October 4– Friday, October 15			Hands-on Presentation	On Demand
Overcoming Barriers in Environmental Education through State Collaboration	As state leaders, opportunities to collaborate are essential when overcoming barriers to environmental education. Join representatives from Virginia, Pennsylvania, Maryland, Delaware, and Washington, DC, in a discussion about integrating environmental literacy into state education priorities, and leveraging partnerships to advance environmental literacy goals in the Chesapeake Bay watershed.	Grace Manubay, DC Office of the State Superintendent of Education; Tamara E Peffer, PA Department of Education; Kirsten Jackson, Maryland State Department of Education; Anne Petersen, Virginia Department of Education; (Moderator) Steve C. Kerlin, Stroud Water Research Center	Monday, October 4– Friday, October 15			Symposium	On Demand
Supporting Neurodivergent Students and Educators	Over 10% of the human population is neurodivergent (including those who are dyslexic, autistic, or have ADHD). In this session, a panel of neurodivergent environmental educators will share their stories. Neurodivergent students and educators have the chance to excel when they are understood, accepted, and supported.	Rebecca Rolnick, Forest School-to-You; Sylvia Collazo, Florida Atlantic University	Monday, October 4– Friday, October 15			Symposium	On Demand
Advancing Equity, Access and Inclusion in a Virtual World	When the world went on Pause in 2020, the Equity, Access & Inclusion Committee of the NY State Outdoor Education Association met weekly, keeping momentum for promoting equity and access in Environmental Education. We will share our best practices and highlight the successes of our committee over the last year.	Elisa Caref, Sarah Lawrence College Center for the Urban River at Beczak; Shinara Sunderlal, Billion Oyster Project; MaryLynne Malone, New York State Outdoor Education Association; Candyce Johnson, Brooklyn Botanic Garden; Pamela Price, Cornell Cooperative Extension-Columbia-Greene; Katie Schnepf, NY State Outdoor Education Association	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
An Inspiring Time Capsule: EE Pandemic Oral History Digital Stories	Experience inspiring stories of graduate students, faculty, k-12 teachers, and environmental educators as they describe new opportunities explored while going virtual during the pandemic. This digital story presentation is a montage designed to provoke and inspire with innovative thinking about positive solutions for virtual learning in EE.	Teresa Coker, Southern Oregon University	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Big Ideas from Little Books. Using Children's Literature to Introduce Environmental Stewardship	Let's talk books. This session shares paired activities and award winning children's literature. Books and activities are designed to get children thinking about their place in the natural world and developing their environmental stewardship. Activities are teacher/parent friendly and engaging (fun) for children. Book list and sample activities provided.	Melissa Parks, Stetson University	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Bringing Indigenous Ways and Knowledge into Place-Based Programs and Projects	Explore with Anishnaabe educator RunningHorse Livingston how and why to respectfully bring Indigenous Ways and knowledge into your place-based STEM projects and programs alongside mainstream scientific ways. Begin creating an Indigenous land acknowledgement, and thoughtfully discuss ways to decolonize lessons and programs by indigenizing. Resources are provided to continue learning.	Laura Amdt, Global GreenSTEM	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Climate Resilience Education & Action for Dedicated Youth (Climate READY)	Climate Ready is an innovative, 3-semester program that empowers high school students to become effective voices for climate resilience in their communities. The program prepares Climate Ready Ambassadors to educate younger students, teachers, and local residents about how their communities can build climate resiliency and work toward equitable climate solutions.	Lauren Butcher, FAU Pine Jog Environmental Education Center; Anne Henderson, Pine Jog Environmental Education Center	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Curriculum Connections in Kindergarten: Teaching Monarchs, Dia de Muertos, and Anti-Racism	To help achieve my school's anti-racism curriculum in my kindergarten classroom, I connect cultural diversity and nature. How do you bring a culture that is not your own to students in an authentic way? My example covers developmentally appropriate connections between Dia De Muertos (Festival of Death) and monarch butterflies.	Peng Nelson, CLWS; Melissa McPartland	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Discover the Wonders of Water	If you've ever struggled to connect your community's water habits to its stormwater system, let us help YOU discover the Wonders of Water through our student-friendly, science-based, easy-to-implement field trips.	Erin Hoffer, City of Plano - SEED	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Diversity, Access, and Student Attendance to Environmental Education Programs	What factors most powerfully influence student attendance to environmental education programs and how might we increase attendance from underserved groups? Results from pre-experience student surveys suggest that attention should be paid to how students' racial identities may give rise to unique barriers to program attendance.	Kelley Anderson, Virginia Tech	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Eco-Capabilities: Creative adventuring in nature to support children's wellbeing	This paper explores the potential of creative adventuring (what we term 'artscaping') for connecting children with nature and supporting their wellbeing. Using examples in two schools, it considers the potential of such practice for empowering young children living in areas of high deprivation, and connecting them with their natural environment.	Nicola Walshe, University College London	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Enhancing Equity in EE by Critically Evaluating Robin Hood Models	Many EE programs are organized to serve the rich so they can serve the poor. However, this "Robin Hood model" promotes the exact inequities we strive to tear down through education. Let's uncover the inherent contradictions in this model by following SNJ's path towards a more equitable EE organizational structure	Eaton Dunkelberger, Sierra Nevada Journeys	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Finding Nature: Headstart Children, Families and Future Teachers Learning Together	What happens when you invite headstart children and their families to a local park for a day of environmental education? Magic, learning and connections to the natural world. This session describes how prospective teachers learned to teach natural history while introducing PreK children and their families to nature experiences.	J William Hug, California University of PA; Clover Wright, California University of PA	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand
Fostering Natural Connections In An Age of Social Media Algorithms	Today's citizens are increasingly bombarded with conflicting, non-scientific information recommended by social media algorithms and trumpeted by social influencers. This session examines recent social science research on the mechanisms that drive rejection of accurate evidence discussing familiar and novel educational strategies in an age of social polarization.	J William Hug, California University of PA	Monday, October 4– Friday, October 15			Traditional Presentation	On Demand

2021 NAAEE Conference—Concurrent Sessions Preliminary Schedule

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From the Classroom to the State Capitol	Are you looking for ways to incorporate civic action into your classroom? Join us to hear from students and their educator about how they took a science fair project and turned it into new regulations for indoor air quality in schools across the state of Virginia.	Ben Delnegro, Student; Bridget Baron, Student; Veronica Holguin, Student; Chloe Yokitis, Student; (Moderator) Vince Meldrum, Earth Force	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Global Climate Teach-In 2022: Climate and Justice	How do we engage more than 100,000 students and educators globally in discussing climate solutions and climate justice? We share plans for the Global Climate Teach-In 2022: Climate and Justice, scheduled for March 30, 2022. Help us reach educators and students in every discipline. NAAEE participants should be on the forefront of engaging their colleagues and other teachers.	David Blockstein, Bard Center for Environmental Policy	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Harnessing the Might of Mentors to Advance Educator Experience and Environmental Civic Action	Join Earth Force as we share our experiences developing mentorship models to support educators who are new to environmental education and civic action.	Alyssa McConkey, Earth Force	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Highlights from eeBLUE, NAAEE's Partnership with NOAA	Together, NAAEE and NOAA are building capacity for environmental literacy by strengthening professional networks, disseminating best practices, and supporting high-quality STEM education. This session will highlight three eeBLUE projects: the Aquaculture Literacy Mini-Grants Program, Coastal Ecosystems Learning Centers (CELC) Youth Summit, and Watershed STEM Education Pedagogy Creators.	Bronwen Rice, NOAA; T'Noya Thompson, NAAEE; Maggie Allen, NOAA; Lauren Gibson, North Carolina State University; Lisa Kim, National Oceanic Atmospheric Administration; Brianna Shaughnessy, NOAA	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
How Green Schools Across the Globe are implementing the Whole School Sustainability Framework	Using K-12 schools as case studies, the focus of this research is on how administrators and teachers have reoriented school infrastructure (reduce environmental impact and costs); emphasized health and wellness; and engaged students in action towards sustainability.	Linda Plevyak, University of Cincinnati	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Learning from beyond our borders: EE in Seychelles	Much EE focuses on the "west", leaving large gaps in knowledge about practices in other parts of the world. In this session, veterans of Seychelles EE community share insights into practices on their Creole island state that are helping to build sustainable communities.	Michele Martin, n/a; Kristen Evers; ;	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Living Local: An Agricultural Education Project for Students and Community	Join the Maryland Coastal Bays Program's as they share about the development of their agricultural education project Living Local. The goal is to foster an appreciation of farming by educating students and the community about positive changes local farmers are implementing to protect natural resources through curriculum and farm visits.	Liz Wist, Maryland Coastal Bays Program; Chandler Joiner, Maryland Coastal Bays Program	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Municipal Plans & Action Agendas in Place-Based Stewardship Education	Communities often have master plans and sustainability agendas that have been developed for local environmental conditions and issues. Connecting these municipal documents to academic curriculum builds subject rigor, anchors learning in community needs, and assists in developing partnerships between students and civic bodies, with youth as informed environmental citizens.	Lisa Voelker, Southeast Michigan Stewardship Coalition; Ethan Lowenstein, Southeast Michigan Stewardship Coalition	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
NAAEE's 2021–22 Federal Policy Agenda	Opportunities abound to advance federal policies related to environmental and climate change education, and our success depends on many voices from the field. This session covers some advocacy basics for environmental educators and lays out the biggest opportunities for the field during the 117th Congress.	Sarah Bodor, NAAEE; Brock Morris Adler, Environmental Educator	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Organizational Features and Capacity Building Across Heterogeneous Outdoor Science Programs	This work examines capacity-building to promote high-quality science teaching in outdoor science programs. We investigate variability in uptake of resources (professional learning sessions, student activities), based on variation in program characteristics (e.g., program/staffing structure; audience characteristics). Implications for broader dissemination of materials in outdoor education are discussed.	Aujanee Young, Valeria Romero, University of California Berkeley; Melissa Collins, Lawrence Hall of Science; University of California, Berkeley	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Partnering University Scientists and Classroom Teachers to Improve Outdoor Education in Schoolyards	This study examines the impact of connecting a university with a local school district to improve access to water quality and outdoor education within the context of the schoolyard. Findings suggest participation in university level research led teachers to increase inclusion of concepts and research practices within their own instruction.	Molly Nation, Florida Gulf Coast University; Jennifer Jones, Florida Gulf Coast University	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Preservice Teachers and Citizen Science: Hands-on Participation to Foster Future Classroom Practice	One method for infusing EE into future K-12 schools is through the training of preservice teachers in their higher education courses. This session shares insights gained from a university class centered on natural history for teachers and, specifically, the students' engagement with a semester-long citizen science project aimed to inspire citizen science in their future classrooms.	Lucy R. McClain, Shaver's Creek Environmental Center - Penn State University	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Teaching Off Trail	Let's experience a year of nature kindergarten! Teaching Off Trail details the implementation of a public school nature kindergarten that reaches and exceeds curricular standards through a 4 P's philosophy cemented in nature play, citizen science, service learning, and community collaborations.	Peter Dargatz, Hamilton School District	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Teaching the Story of Climate Change: A Collaborative Podcasting Project	What is an effective and engaging way to get students to care about climate change and take action? This session will focus on how to help students teach the story of climate change through the creation of their podcast episodes and the publication of their class podcast series.	Brian Gordon, IS289: Hudson River Middle School	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Telling our eeStory	The positive impacts of EE support public health, conservation, K-12 Education, child development, and social justice. Among the public, however, these connections are poorly understood. Join us to learn more about communication and evaluation tools YOU can use to talk to funders and stakeholders about the importance of our work!	Katie M Navin, Colorado Alliance for Environmental Education	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Tracing Science Curriculum through Systems Thinking and Sustainability Lens	Today, science education is one of the important means to support systems thinking skills of students to prepare them for a changing world. With this idea, this study aimed to develop and validate a strategy to evaluate systems thinking skills in Turkish primary and middle school science curriculum for sustainability.	Guliz Karaarslan Semiz, Agri Ibrahim Ceyhan University, Department of Mathematics and Science Education, Agri, TURKEY; Gaye Teksoz, Middle East Technical University	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Tracking as Pedagogy for First Nations Early Childhood Learners	This session will present the results of a project to develop an environmental education early childhood curriculum for the First Nations of Quebec and Labrador. Tracking was examined as an approach to education for the environment and the territories in the context of society, the biosphere, and the cosmic.	Suzanne Major, University of Montreal	Monday, October 4– Friday, October 15	24-hour access		Traditional Presentation	On Demand
Pre-Conference Workshops (Preregistration and additional fee required)							
Building Action for Climate Empowerment in the United States	Be part of something big and help address the challenges of the climate crisis. Join members of the Action for Climate Empowerment (ACE) community to help develop an ACE National Strategy for the United States to accelerate a just transition to a resilient and low-carbon future.	Barit Merrick, NOAA; Jen Kretzer, The Wild Center; (Moderator) Frank Nipold III, NOAA Climate Program Office	Wednesday, October 6	12:00pm	3:30pm	Workshop (preregistration required)	Live
Exploring Sustainability Through an Indigenous Lens—Getting Started with Your Students	In this interactive workshop, explore the concept of sustainability and our relationship to the natural world through both western and Indigenous lenses. Learn how you can weave Indigenous perspectives into your teaching in a way that engages the cognitive, physical, emotional, and spiritual self and fosters deep learning around sustainability.	Donna Ross; Marie Tremblay, Alberta Council for Environmental Education	Wednesday, October 6	12:00pm	3:30pm	Workshop (preregistration required)	Live
Local Action, Global Impact: Sustainable Development Goals in My Neighborhood	Join us as we dive into the UN's Sustainable Development Goals and explore how to use them as a framework for learning and action in local, regional, and global contexts. Learn how to design a community-based project for youth voice and agency that generates local action for global solutions.	Jennifer Cinillo, Shelburne Farms and VT SWEEP; Aimee Arandia Østensen, Shelburne Farms; Emily Hoyler, UVM Tarrant Institute for Innovation Education	Wednesday, October 6	12:00pm	3:30pm	Workshop (preregistration required)	Live

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Teaching Environmental Justice for K-12 Educators	Join EcoRise staff for a deep dive into our Introduction to Environmental Justice (EJ) K-12 curriculum. Using a social-emotional learning lens, this workshop will provide the skills and knowledge necessary to foster students' understanding of EJ history and concepts and explore how empathy, leadership, community action, and policy change can bring long-overdue	Abby Randall, EcoRise; Zakhia Grant, EcoRise; Kizzy Hannibal Xolani, EcoRise	Wednesday, October 6	12:00pm	3:30pm	Workshop (pre-registration required)	Live
Affiliate Assembly	The Affiliate Assembly is designed for staff and board members of NAAEE's 54 Affiliate Network organizations. Share and learn from other affiliate leaders in this unique professional development and networking opportunity. Let's build capacity, share successful practices, and learn innovative strategies. Join us after the Assembly for an optional Virtual Happy Hour (6:00 PM-7:00 PM EST).	Bruce K. Young, NAAEE	Wednesday, October 6	4:00pm	6:00pm	Workshop (pre-registration required)	Live
Building and Fostering Resilience into Environmental Education Programming	This virtual, interactive workshop will pilot a tool to assist environmental educators in developing, delivering, and evaluating programs that build and foster multiple types of resilience. This tool incorporates resilience-based recommendations, principles, and frameworks synthesized from multiple disciplines, including engineering, psychology, ecology, and education.	Kenneth Rainer, University of Florida	Monday, October 11	12:00pm	3:30pm	Workshop (pre-registration required)	Live
Confluence of Culture Shift: The Interrelationships Between EE, EJ, and Climate Justice	Environmental education, Indigenous science, climate justice, and environmental justice intersect in many ways, including equity, diversity, inclusion, and justice. We will engage participants in an experiential workshop designed to deepen analysis and practice at these intersections. We will explore ways of honoring the shared influences as well as the uniqueness of each of these	Queta González, Center for Diversity & the Environment; Charissa Virginia Jones, OSU Extension Service - Outdoor School	Monday, October 11	12:00pm	3:30pm	Workshop (pre-registration required)	Live
Connecting Research and Practice: Strategies to Improve Your Environmental Education Programs	Ever wondered about the latest research in environmental education? Where do you find it? How do you use it? Join us to explore strategies for integrating research findings into your programs using collaborative design-thinking activities. A train-the-trainer element helps you coach others to incorporate EE research in their practice, too.	Mele E.M. Wheaton, Stanford University; Stephanie Rafaneli, Stanford University	Monday, October 11	12:00pm	3:30pm	Workshop (pre-registration required)	Live
Equity and Inclusion Expansion of Community Engagement Guidelines for Excellence	This interactive workshop introduces the equity and inclusion expansions of NAAEE's Community Engagement: Guidelines for Excellence, offers relevant facilitation and programming ideas, and provides guidance for designing learning opportunities in your community context. Participants also attend a coaching session in November. By invitation only; open only to previous community engagement train-the-trainer workshop participants.	Luciana Ranelli, Antioch University New England; Libby P McCann, Antioch University New England; Jean Chimbrima Kayira, Antioch University New England; Susana C Mateos, Antioch University New England; Emily Schultenberg, Antioch University New England; Cynthia Espinosa Marrero, ee360; Bora Simmons, National Project for Excellence in Environmental Education; Anne Umali, NAAEE	Monday, October 11	12:00pm	3:30pm	Workshop (pre-registration required)	Live
Youth Voice Can Make a Real-World Difference: Civic Engagement	Educators can equip students with the tools to think critically, but often stop short of letting students facilitate decisions and next steps towards action and civic engagement. Join this workshop to break through to the next phase, Youth Voice using PLT curriculum.	Laura Collard, MAEOE; Laura Downey, KACEE; Mary Westlund, MD Association for Environmental and Outdoor Education	Monday, October 11	12:00pm	3:30pm	Workshop (pre-registration required)	Live
Climate Fresk: You're Holding All the Cards	Forty-two cards, one piece of group art, and many actions inspired. IPCC Report-based Climate Fresk is for everyone: Play, learn about climate change causes and effects, and empower your action ... together. Created in France in 2018, 200,000 people worldwide now play the game, thanks to 6,000 citizen educators.	Sheila Suarez de Flores, Climate Fresk	Tuesday, October 12	11:30am	3:00pm	Workshop (pre-registration required)	Live
Environmental Action Civics: Connecting the Community to the Classroom	How can young people make meaningful changes in their communities? How can they work to solve environmental problems? The Earth Force Process helps provide a framework to support young people as they move from learning about environmental issues to finding solutions and speaking to power to implement those solutions.	Alexis Thorbecke, Earth Force; Raizha Yurivilca Delgado, Earth Force	Tuesday, October 12	11:30am	3:00pm	Workshop (pre-registration required)	Live
Greening Our Future: Green School Initiatives and Green Job Opportunities	Learn how Maryland Green School programs empower students to initiate and lead sustainable actions and how these actions can foster student understanding of and appreciation for forested land. Then explore ways to interest students in green career opportunities using engaging activities from the PLT Green Jobs: Exploring Forest Careers curriculum.	Mary Westlund, Maryland Association of Environmental and Outdoor Education; Rocco Saracina, Sustainable Forestry Initiative	Tuesday, October 12	11:30am	3:00pm	Workshop (pre-registration required)	Live
The Road to NAAEE Higher Education Accreditation: Mapping Your Successful Application	This workshop provides detailed information for university faculty interested in becoming Accredited through NAAEE's Distinguished College and University Program. The workshop will consist of an in-depth review of standards, strategies for incorporating the standards into programs, sample assessments, and models from faculty members who have completed applications.	Rebecca L. Franzen, University of Wisconsin-Stevens Point, Wisconsin Center for Environmental Education; Billy Bennett, Kentucky Environmental Education Council; Dorothea Shuman, Montreat College; Melinda Wilder, Eastern Kentucky University; Patty Bom, Hamline University School of Education	Tuesday, October 12	11:30am	3:00pm	Workshop (pre-registration required)	Live
Wednesday, October 13, 2021							
Collective Evaluation? Multisite Evaluation? Evidence-Based Learning Network? Collaborative Eval?	How do terms used to describe programmatic evaluations conducted by multiple organizations and/or at multiple sites vary? Does it matter? How do you use a culturally responsive and equitable lens across sites? This session will pilot some definitions for discussion and use EE case studies as exemplars.	Charlotte Clark, Duke Nicholas School of the Environment; Ashlyn Teather, Duke University; Karyl Askew, Karyl Askew Consulting; Libby P McCann, Antioch University New England; Liz DeMattia, Duke University; T'Noya Thompson, NAAEE	Wednesday, October 13	11:00am	11:40am	Roundtable Discussion	Live
How important is Environmental Education to Conservation? I mean, really?	Though it sounds simplistic, this question opens itself to many more complex and nuanced ideas and points of divergence. This roundtable starts with the four panelists asking complex questions of each other and then opens up into a dialogue at the table.	Joe E. Heimlich, COSI; Kalthayoon Khalil, Zoo Advisors; Nicole Ardoin, Stanford University; Joy Kubarek, Inform Evaluation & Research	Wednesday, October 13	11:00am	11:40am	Roundtable Discussion	Live
Connecting to Place Through Climate Storytelling	Explore how to use place based learning and storytelling to teach students about adaptive solutions to climate change and inspire them to be change makers, themselves! An environmental filmmaker and environmental educator team up to present climate change solutions through the lens of our unique place on this	Aizé Carrière, University of Miami; Shari Carswell, Katy ISD, Paetow HS (Teacher) & UNT Applied Anthropology (GradStudent)	Wednesday, October 13	11:00am	11:40am	Traditional Presentation	Live
Environmental Education in Action: Learning from Case Studies Around the World	Case studies are more than stories; they are a learning process we can use to improve our own work. Join the Global Environmental Education Partnership to explore a variety of case studies that illustrate practices, including climate literacy and conservation education. Explore ways to incorporate case study learning into your own practices.	Melissa Hopkins Taggart, NAAEE; Alex Kudryavtsev, Cornell University	Wednesday, October 13	11:00am	11:40am	Traditional Presentation	Live
Exploring Self-Leadership in Support of Equity-Focused Systems Change	Using a framework for inclusive leadership practices, participants will explore how to begin with self-leadership (i.e., active (un)learning, intentional action, and accountability) as foundational groundwork for their ability to support equity-focused systems change in environmental education.	Jennifer Page, Self to Systems	Wednesday, October 13	11:00am	11:40am	Traditional Presentation	Live
Getting Strategic About Your Organization's Strategic Planning	Done well, strategic planning can be an enjoyable and engaging opportunity to position your organization, board, and staff for future successes. In this interactive session, learn how you can thoughtfully position your organization's strategic planning process to yield great outcomes, whether working with a consultant or going it alone.	Karan Wood, Environmental Education Alliance; David Chase, DRC Consulting; ;	Wednesday, October 13	11:00am	11:40am	Traditional Presentation	Live
Place-Based Civic Environmental Engagement in Urban Areas: Research for Practice	What happens when youth partner with community environmental educators to address local environmental issues? Find out what this NSF-funded research team discovered about teens' views on civic impact and the importance of using science for the public good. Learn best practices for encouraging young environmental citizens in your urban community.	Erin Gallay, University of Wisconsin-Madison; Connie Flanagan, University of Wisconsin-Madison	Wednesday, October 13	11:00am	11:40am	Traditional Presentation	Live

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Strategies for Strengthening EE in a Post-pandemic World: WET, WILD & PLT's Approach	New challenges and opportunities lie ahead in teaching and in providing educator professional development training—including in-person as well as virtual settings. Learn about strategies and resources from Project WET, Project WILD, and Project Learning Tree and how new offerings from these programs integrate into EE programming at the state and local levels.	Marc LeFebre, Association of Fish & Wildlife Agencies/ Project WLD; Jacyn Stallard, Project Learning Tree, Sustainable Forestry Initiative; Julia Beck, Project WET Foundation	Wednesday, October 13	11:00am	11:40am	Traditional Presentation	Live
Communicate! Data and Stories Can Build Support for Your EE Work	EE is well-positioned to address many of the conditions brought about by the confluence of COVID-19 and a growing anti-racism movement. In this session, we will interactively showcase tools and strategies you can use to facilitate persuasive conversation with education decision-makers.	Andrew Powers, PEER Associates; Michael Duffin Duffin, PEER Associates	Wednesday, October 13	12:00pm	1:00pm	Hands-on Presentation	Live
Exploring Climate Solutions With EN-ROADS Simulator as a Teaching Tool	See what it takes to stop global warming! What policies and actions do you support? This workshop will guide attendees to create global scenarios with policies in different sectors of society. Among other things, the model demonstrates interactions among the solutions and co-benefits of the policies we choose.	Susan Golden, S. Golden Education	Wednesday, October 13	12:00pm	1:00pm	Hands-on Presentation	Live
Improved EE Practice Through Authentic Community Engagement	As environmental educators, we work in and with communities ranging from workplace teams to neighborhoods or regional partnerships. Learn about the structure and development process of the NAAEE Community Engagement: Guidelines for Excellence and explore key characteristics and tools to apply in your own context.	Libby P McCann, Antioch University New England; Jean Chimbrima Kayira, Antioch University New England; Luciana Ranelli, Antioch University New England; Cynthia Espinosa Marrero, ee360; Susana C Mateos, Antioch University New England; Emily Schuttenberg, Antioch University New England; Bora Simmons, National Project for Excellence in Environmental Education; Anne Umali, NAAEE	Wednesday, October 13	12:00pm	1:00pm	Hands-on Presentation	Live
Modified Curriculum and Resources for Engagement and Stewardship During COVID-19	Join WATERS project (NSF funded ITEST grant) team members in exploring parts of the free 10-lesson unit, modified for and tested during COVID-19 by CA, VA, and PA teachers and students from diverse communities, including live use of watershed modeling software and a new stream study interactive simulation.	Steve C. Kerlin, Stroud Water Research Center; Nanette Ivory Marcum-Dietrich, Millersville University of Pennsylvania; Mandy Nix, Stroud Water Research Center	Wednesday, October 13	12:00pm	1:00pm	Hands-on Presentation	Live
Zooming In, Zooming Out: Building Local and Global Programmatic Connections	Place-based and phenomenon-centered education can support all students in building understanding and skills that are meaningful...but how can you ensure you are building relevant, community-based connections to larger issues like climate change? Learn how to locate global issues within students' hyperlocal lives and communities.	Brad Street, IslandWood; Celina Steiger, IslandWood	Wednesday, October 13	12:00pm	1:00pm	Hands-on Presentation	Live
Lessons Learned from the Frontlines of K-12 Community Resilience Education	During this panel discussion among NOAA's Environmental Literacy Program community resilience education grantees, we will explore the challenges and successes of working with urban and rural K-12 schools, teachers, and students as they consider the causes of, and potential solutions to, local climate change impacts addressed through action projects.	Katya Schloesser, CIREs, CU Boulder; Sheryl Sotelo, Chugach School District; (Moderator) Sarah E Schoedinger, NOAA Office of Education; (Moderator) Carrie McDougall, NOAA Office of Education; (Moderator) Maggie Allen, NOAA; Holly Thomas-Hilburn, Arizona Project WET, University of Arizona	Wednesday, October 13	12:00pm	1:00pm	Symposium	Live
Programs and Practices that Empower Students to Take Civic Action	Environmental educators face the challenge of empowering students to take civic action on environmental issues without advocating for specific political positions. Learn methods to help students navigate different political perspectives to find their voice and agency. Hear about and share program designs that provide students with pathways to civic leadership.	(Moderator) Louise Chawla, University of Colorado Boulder; Lee Frankel-Goldwater, University of Colorado Boulder; Kelsey Tayne, University of Colorado, Boulder; Julie Byle, University of Colorado	Wednesday, October 13	12:00pm	1:00pm	Symposium	Live
Youth Leaders in their Own Words: Taking Action on the SDGs	Hear from young adult winners of the Teens Dream: Changemaker Challenge about how they identified solutions to SDGs and are using their award monies to create sustainable change in their communities with the help of a network of mentors.	Jennifer Brundage, Smithsonian Institution; Brian Coyle, Smithsonian Institution, National Zoo and Conservation Biology Institute	Wednesday, October 13	12:00pm	1:00pm	Symposium	Live
Fostering Youth Agency in Community and Citizen Science Programs	We will discuss findings from our research on youth learning and agency with environmental science through natural history museum-led community and citizen science programs, and share resources for design of EE programs. What does agency look like in these settings? Which design features could afford/constrain youth agency?	Heidi Ballard, School of Education, Univ. of California; Maryam Ghadiri, University of California, Davis	Wednesday, October 13	1:30pm	2:10pm	Roundtable Discussion	Live
NAAEE Fundraising Coaching	How do I start conversations that lead to bigger gifts? How can I get my board members more engaged in fundraising? Is this project right for corporate or foundation support? Am I doing ANY of this right? Whether you're new to fundraising or a seasoned professional, bring your questions to NAAEE's fundraising roundtables.	Lea Harvey, LLH Strategy Advisors, LLC; Krishna Roy, Consultant	Wednesday, October 13	1:30pm	2:10pm	Roundtable Discussion	Live
Building a Coalition for Climate Education Policy	Climate change is being viewed with unprecedented urgency in the U.S. But leaders often overlook the critical role of education and the K-12 public school sector in designing solutions to the crisis. The Coalition for Climate Education Policy is working to ensure education is part of the toolbox of solutions to build resilient communities and advance justice and equity.	Sarah Bodor, NAAEE	Wednesday, October 13	1:30pm	2:10pm	Traditional Presentation	Live
Building the Next Generation of Educators: Promising Practices in Preservice	What pre-service students learn in university courses is foundational to success as practicing educators. Faculty play an important role in preparing environmentally literate teachers who can engage students in impactful EE experiences. In this session, participants will learn engagement strategies, including faculty recruitment and retention, costs and materials, reaching more diverse audiences, and documentation.	Ana Leimer, Sustainable Forestry Initiative/Project Learning Tree; Marc LeFebre, Association of Fish & Wildlife Agencies/ Project WILD; Julia Beck, Project WET Foundation	Wednesday, October 13	1:30pm	2:10pm	Traditional Presentation	Live
Exploring Natural Inquirer Distance Learning Modules: Bringing Research to Students	Join us to explore the Natural Inquirer's Distance Learning Modules. Ranging in a wide variety of topics, from climate change to caves and karsts, these modules bring Forest Service research to students through hands-on activities. You'll learn how to make full use of these free educational modules in your programming.	Tinelle Bustam, USDA; Heidi McAllister; Rachel Bayer, Forest Service; Amtchat Edwards	Wednesday, October 13	1:30pm	2:10pm	Traditional Presentation	Live
Increasing EE capacity through AmeriCorps	Increase the capacity for your organization to provide quality environmental education by developing an EE stewardship focused AmeriCorps program. This session will provide participants with an example of such programs, the partnerships that make them work, and the benefits and challenges of beginning an EE-based AmeriCorps program. An interactive time for questions will	Katie M Navin, Colorado Alliance for Environmental Education; Ashley Marie Mike, KEEC; Erin Dreps, Butterfly Pavilion; Billy Bennett, Kentucky Environmental Education Council; Russ Dickerson, Northern Arizona University – Center for	Wednesday, October 13	1:30pm	2:10pm	Traditional Presentation	Live
Outdoor Preschools in the United States: Updates and Opportunities	Outdoor preschools continue to expand in the United States, with more programs and new policy opportunities encouraging equity in outdoor learning in early childhood. NAAEE's Natural Start Alliance will share updates and opportunities in this sector of environmental and early childhood education.	Christy Merrick, NAAEE	Wednesday, October 13	1:30pm	2:10pm	Traditional Presentation	Live
The Power of Connection: DEJJA Symposium Learning from Sharing	This Spring MAEOE held a DEJJA Symposium with 4 parts: Food Justice, Accessibility to Nature, Air Quality and Community Health, and Creating Safe & Welcoming Spaces Outdoors. Participants discussed their work and personal experiences in a conversational style. DEJJA are at the core of ensuring an environmentally sustainable future.	James Roberson, Prince George's County Public Schools (William S. Schmidt Outdoor Education Center); Katrina Jones, Maryland Port Administration; Curtis Bennett, National Aquarium; (Moderator) Laura Collard, MAEOE	Wednesday, October 13	1:30pm	2:10pm	Traditional Presentation	Live
CIVIC Enhances Community Capacity to Address Problems	The Florida Extension program, CIVIC, trains Extension agents to build partnerships with organizations in their community and develop town hall and deliberative forums that engage residents on community issues, reach diverse audiences, and facilitate groups taking action. We will share our experiences and discuss if this work could enhance your organization.	Martha C. Monroe, University of Florida; Linda Seals, University of Florida/IFAS Extension; Alicia Bateman, University of Florida; Holly Abeels, University of Florida IFAS Extension; Kimberly Davis, Florida A&M University Cooperative Extension; Armando Ubeda, University of Florida	Wednesday, October 13	2:30pm	3:10pm	Roundtable Discussion	Live

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Advancing Climate Justice Education at the Statewide Level	In 2021, the Maine Environmental Education Association advanced climate education through the convening of Maine's first Climate Education Summit. Coplaned by youth, this event built a shared vision to accelerate climate education. Explore lessons learned organizing a statewide climate education summit, centering justice, and reimagining climate education through collective action.	Amara Ifeji, Maine Environmental Education Association; Olivia Grist, Maine Environmental Education Association	Wednesday, October 13	2:30pm	3:10pm	Traditional Presentation	Live
Common Ground for Community Engagement Leadership eecredentialed	In this session, learn about a microcredential course designed to support community leaders in using Environmental Issues Forums to find common ground around complex environmental issues. Course participants also gain tools and strategies for applying the NAAEE Community Engagement Guidelines to engage their community in action around these issues.	Laura Downey, KACEE	Wednesday, October 13	2:30pm	3:10pm	Traditional Presentation	Live
EARTHDAY.ORG's Global Climate Literacy Campaign	We all believe that every student in the world deserves climate and environmental education. Join us to learn how you can take action through our Campaign from grassroots action to national policy advocacy. We will review strategies to advocate for youth, climate justice, quality education, adequate funding, and real change.	Rachel Weisbrot, Earth Day Network	Wednesday, October 13	2:30pm	3:10pm	Traditional Presentation	Live
EPA Environmental Education Grant Program	EPA's Environmental Education Grant Program seeks proposals from eligible applicants to support EE projects that promote environmental awareness and stewardship and help provide people with the knowledge and skills to take responsible actions to protect the environment. EPA will provide an overview of the program and information on applying for grants.	Michael Band, US EPA	Wednesday, October 13	2:30pm	3:10pm	Traditional Presentation	Live
Listen to Country: Reflections on Aboriginality in Australian Environmental Education	Increasing recognition of Aboriginality takes place in the context of a grave continental climate crisis. This provides opportunities to bring ancient knowledge forward. Corcoran, Walker, and Bowler will look at trends in Australian EE through two projects—embedding cultural understandings in field-based tertiary education and learning Aboriginal perspectives in	Peter Blaze Corcoran, Florida Gulf Coast University	Wednesday, October 13	2:30pm	3:10pm	Traditional Presentation	Live
Local Lenses on Global Issues: Students Deliberation of Sustainability Challenges	How can we engage students in deliberating sustainability challenges? This presentation provides a mapping stakeholder approach to develop students' skills in analyzing contesting viewpoints on local environmental issues. Two cases, the Permian Highway Pipeline in Texas and the Okelonenke mining controversy in Georgia, are presented to model key instructional	Yun-Wen Chan, Texas State University; Michelle Forsythe, Texas State University	Wednesday, October 13	2:30pm	3:10pm	Traditional Presentation	Live
NAAEE's EE 30 Under 30 Class of 2021 #1	This session features leaders from NAAEE's EE 30 Under 30 class of 2021, representing a variety of perspectives and approaches on a pertinent topic in EE.	Nina Hamilton, NAAEE	Wednesday, October 13	2:30pm	3:10pm	Traditional Presentation	Live
Barefoot is Best: Understanding and Implementing the Research with Children	Take off your shoes! Having children barefoot outside is an acceptable risk to help them develop physically and forge a deep connection to the Earth. We will discuss the benefits and research and identify ways to get everyone on board to successfully implement it into each unique program and location.	Lucy Ritter, n/a	Wednesday, October 13	5:15pm	5:55pm	Roundtable Discussion	Live
Incorporating Nature-Based Learning Experiences into the Community College Curriculum	Benefits of nature-based learning have been well documented in early childhood to high school settings, but can college students also benefit from these type of experiences? During this roundtable, participants will have the opportunity to discuss ways of incorporating and assessing nature-based learning experiences in higher education.	Nicole Kras, Guttman Community College	Wednesday, October 13	5:15pm	5:55pm	Roundtable Discussion	Live
Attitudes and Consequences of Preservice Teachers' Attitudes Towards Climate Change	This presentation profiles trends in K-8 preservice teachers attitudes regarding climate change. The PIP/Knowledge Network Poll was administered to Elementary Education preservice teachers over ten-year period characterizing changes in attitudes and perceptions. Accompanying the analysis will be an outline of curriculum adjustments made which addressed students' perceptions and misconceptions.	Fletcher Brown, University of Montana	Wednesday, October 13	5:15pm	5:55pm	Traditional Presentation	Live
Evaluating Marine Education Program At Junior High School In Japan	A series of studies were conducted to understand the effectiveness of a unique marine conservation education program in which junior high school students collaborate with local fishermen in Japan. Results revealed that the program changed students' awareness and behaviors, and also had effects toward their life after graduation.	Ryo Sakurai, Ritsumeikan University	Wednesday, October 13	5:15pm	5:55pm	Traditional Presentation	Live
Every Kid, Every Day, Every Way: Creating a New Narrative for EE	Through multiple years of community-centered dialogues with educators, teachers, youth, and community members representing interconnected interests like outdoor recreation, education, conservation, and environmental justice, Environmental Education of New Mexico released Every Kid, Every Day, Every Way—a multiyear shared vision and strategy to provide daily equitable access to the outdoors and environmental learning for all New Mexico kids.	Tallie Segel, Northern Arizona University; Stephanie Haan-Amato, Environmental Education of New Mexico; Eileen Everett, Environmental Education of New Mexico	Wednesday, October 13	5:15pm	5:55pm	Traditional Presentation	Live
Teaching Empathy through Nature: Pivoting in a Virtual World	FAU Pine Jog's Teaching Empathy through Nature program transitioned to the online world during the COVID-19 pandemic. Learn how you can successfully foster a connection to nature with students while they are in virtual learning environments. Lessons learned and obstacles overcome will be discussed!	Gregory Goebel, FAU Pine Jog Environmental Education Center; Anne Henderson, Pine Jog Environmental Education Center	Wednesday, October 13	5:15pm	5:55pm	Traditional Presentation	Live
THRIVE: Deepening Government Employees' Engagement in Sustainability	THRIVE engages local government employees in sustainability and climate actions using a collaborative learning platform with interactive presentations/discussions, role-playing, polling, and virtual workspaces to co-design positive, environmentally just solutions. In this presentation, the project team explains the model, theories of learning, evaluation protocols, and some outcomes of a pilot project.	Gina Murphy-Daring, Mrs. Green's World; Sandra Bernal, University of Arizona; Julie Robinson, Pima County; Kelly King, Mrs. Green's World; Sandra Maina, Pima County	Wednesday, October 13	5:15pm	5:55pm	Traditional Presentation	Live
We're Updating and Revising—Environmental Education Program Development: Guidelines for Excellence	NAAEE's Environmental Education Program Development: Guidelines for Excellence, part of the Guidelines for Excellence series, provides a set of recommendations for developing and improving EE programs. We're in the process of updating them. Come and get a sneak peek!	Bora Simmons, National Project for Excellence in Environmental Education	Wednesday, October 13	5:15pm	5:55pm	Traditional Presentation	Live
Climate Justice League: Creating Environmental Justice Leaders in Schools	The Climate Justice League is a cohort-based professional learning experience in Washington state that supports secondary teachers in designing and implementing science learning activities that highlight social and environmental justice connections. Come learn how teachers developed learning experiences focused on local challenges and took action with their students.	Becky Bronstein, EarthGen; Stacy Meyer, Educational Service District 112; Nayiri Haroutunian, EarthGen	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Connecting Special Education and Environmental Education Creates Exceptional Learning Opportunities	Special education and environmental education took center stage during a virtual collaboration resulting in the examination of communication barriers. Both fields strive to immerse students in an experiential learning opportunity to impact attitudes and behaviors. Participants will explore accommodations focusing on inclusive strategies to support connections to the natural world.	Julia Robinson, Hefner Museum of Natural History; Michelle Silvers, University of Arizona	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Do It Fur the Culture!	"Do It Fur the Culture!" is an exploration into how Culturally Responsive Pedagogy is amplifying environmental education by re-establishing it as a more inclusive, reflective and connective science. Under this teaching strategy, a more diverse range of students are authentically establishing their place within environmental education.	Christopher Conner, Jacksonville Zoo and Gardens	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Engaging Students in Environmental Problem-Solving and Projects	If Environmental Education is a continuum from nature connection on one end to action on the other, how can educators help learners become self-activated change-makers? Teaching environmental systems and science is not enough. Discover ways to engage learners in problem solving and projects that result in a lifelong environmental ethic.	Karan Wood, Environmental Education Alliance	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live

2021 NAAEE Conference—Concurrent Sessions Preliminary Schedule

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Invitations to Inquiry with FieldScope: Engaging Students with Community & Citizen Science Data	Do you want to support kids in working with community and citizen science data sets? BSCS Science Learning has developed Invitations to Inquiry with FieldScope, free instructional activities designed to connect students with environmental data and build their confidence in working with the data to answer questions about the world.	Audrey Mohan, BSCS Science Learning; Sean O'Connor, BSCS Science Learning	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Litter Lessons: Project-based marine debris education through citizen science	Project-based learning (PBL) is a research-proven way to get students invested in environmental education. The National Oceanic and Atmospheric Administration Marine Debris Program will demonstrate a variety of engaging lessons integrating PBL with citizen science data to inspire students to better understand and advocate for a sea free of debris.	Alexandria Brake, NOAA	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Pilgrimage in Place	Pilgrimage in Place provides educators with tools to promote environmental awareness and self-connection with nature within the context of environmental justice. Pairing digital mapping with poignant questions allows for place identification and self-reflection. This activity can be performed as a collective in-person lesson or an independent contemplation for virtual learning.	Vickie Machado, The Eco-Stewards Program	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Reconciling Relationships & Reimagining Environmental Education through an Indigenous Lens	Environmental education is not a new idea. Indigenous Peoples across Turtle Island (North America) have practiced learning on the land since time immemorial. Experience Natural Curiosity's transformative pedagogy that encourages children's environmental inquiry through an Indigenous lens, developed with guidance from a national Indigenous Education Advisory Board	Haley Higdon, Natural Curiosity	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Youth Got the Power: Adult Allies in Youth-Led Movements	This hands-on workshop will explore applications of the P7 framework (Cahill & Davand, 2018) as a tool for meaningfully engaging youth in community action with adults. Participants will apply this tool to link theory and practice in simulations of real-life climate action scenarios.	Hannah Barg, NC Museum of Natural Sciences; YES-Resilience Program; Alayna Schmidt, WNC Nature Center	Wednesday, October 13	6:15pm	7:15pm	Hands-on Presentation	Live
Thursday, October 14, 2021							
Centering Equity in Professional Learning: Challenges, Successes, and Impact on Practice	At the onset of BEETLES, we believed equity was at the core of our work; yet conversations with partners and evaluators revealed gaps in how we were centering equity. Drawing from a five-year NSF study, we will share insights and invite discussion on how to center equity in professional learning.	Jedda Foreman, Lawrence Hall of Science; Valeria Romero, University of California Berkeley	Thursday, October 14	11:00am	11:40am	Roundtable Discussion	Live
Future Vision for USDA Forest Service Conservation Education	The USDA Forest Service is developing a new strategy that will direct how the Agency delivers conservation education programs that uplift our communities and partners. We want to hear your feedback on the new strategy's vision and discuss how the strategy should drive Forest Service work with partners in the	Heidi McAllister, Rachel Bayer, Forest Service; Susan M. Cox, US Forest Service; (Moderator) Barbara McGuinness, USDA Forest Service; Tinelle Bustam, USDA	Thursday, October 14	11:00am	11:40am	Roundtable Discussion	Live
A Community Improving Practice: Lessons from an Evidence-based Learning Network	In this interactive presentation, we will describe a collaborative learning network model of evaluation designed to motivate, connect, and empower. We'll also share lessons about how a community of practice coupled with supported evaluation can build organizational capacity, improve programs, and identify practices that enhance participant outcomes.	Marc Stem, Virginia Tech; Eileen Merritt, Virginia Polytechnic and State University; Robert B Powell, Clemson University; Troy Frenshley, University of North Carolina at Wilmington; Mandy Kern, Kansas Wetlands Education Center; Annie Kilby, Grand Canyon National Park	Thursday, October 14	11:00am	11:40am	Traditional Presentation	Live
A Conversation on Higher Education Accreditation	This session offers an opportunity for higher education faculty to meet faculty members who represent programs that have earned NAAEE's Accreditation: Distinguished College and University Programs. Faculty will share about the process they went through to develop and assess their own environmental education program. The presentation will be informal with time for discussion.	Melinda Wilder, Eastern Kentucky University; Rebecca L. Franzen, University of Wisconsin-Stevens Point, Wisconsin Center for Environmental Education; Dorothea Shuman, Montreat College; Patty Bom, Hamline University School of Education; Billy Bennett, Kentucky Environmental Education Council	Thursday, October 14	11:00am	11:40am	Traditional Presentation	Live
Building Youth Capacity For Biodiversity Conservation Through A Place-Based Pedagogy	A Bird Club as a place-based approach to empower the youth of a rural Colombian community in the exploration and protection of its unique, yet endangered biodiversity through citizen science, art, indigenous knowledge and ecotourism.	Daniel Couceiro, SELVA	Thursday, October 14	11:00am	11:40am	Traditional Presentation	Live
Community Resilience Education: A Theory of Change Advances the Field	NOAA's Community Resilience Education Theory of Change provides a framework for this growing field. We will present an overview and a recent grantee outcome mapping exercise. We will discuss how projects are moving toward long-term outcomes that advance equitable resilience. If you're working in climate resilience, please share your thoughts.	Came McDougall, NOAA Office of Education; Sarah E Schoedinger, NOAA Office of Education; (Moderator) Maggie Allen, NOAA; (Moderator) Maggie Beelstra, NOAA	Thursday, October 14	11:00am	11:40am	Traditional Presentation	Live
Identifying Barriers to Youth Action and How to Overcome Them	To truly move people along the environmental literacy continuum, students must be practiced in taking action. Join NOAA and Earth Force in grappling with the real and perceived challenges of supporting student action. Participants will walk away with a new framing for better supporting this critical component of EE.	Grace Edinger, Earth Force; Elise Trelegan, NOAA Chesapeake Bay Office	Thursday, October 14	11:00am	11:40am	Traditional Presentation	Live
Tracking Collective Impact in Schools Across Canada	EcoSchools Canada is the largest environmental certification program for K-12 schools in the country. Leveraging a custom-built innovative online platform, the EcoSchools program supports school communities as they develop and implement school-based action plans that put agency and leadership opportunities in the hands of students.	Clara Luke, EcoSchools Canada; Sierra Frank, EcoSchools Canada	Thursday, October 14	11:00am	11:40am	Traditional Presentation	Live
Be the Change: Civic Engagement Lessons for a Sustainable Future	Build on students' growing environmental awareness with hands-on lessons that inspire them to collaborate, communicate and advocate around issues in their local communities and across the globe. Discover civics-based activities for the classroom and an activism toolkit for budding global change makers.	Laura Short, Population Education	Thursday, October 14	12:00pm	1:00pm	Hands-on Presentation	Live
Empowering Effective Climate Change Communicators	Communicating effectively about climate change is paramount if we hope to realize viable, equitable climate solutions in our lifetime. In this session, engage with the Yale Program on Climate Change Communication's data-based, NGSS-aligned activities that you can use to empower students to become effective climate change communicators.	Ruthie Gold	Thursday, October 14	12:00pm	1:00pm	Hands-on Presentation	Live
Environmental Education Evaluation Clinic	Interested in learning more about program evaluation? Bring your questions to this interactive workshop! We will provide a brief overview of the basics of program evaluation, then you will have the opportunity to join breakout rooms to ask experts any questions you have about evaluation, including those specific to your program.	Noelle Wyman Roth, Duke University; Karyl Askew, Karyl Askew Consulting; Steven Braun, eeRISE LLC; David Chase, DRC Consulting; Louise Chawla, University of Colorado Boulder; Charlotte Clark, Duke Nicholas School of the Environment; Julie Ernst, University of MN Duluth; Lauren Gibson, North Carolina State University; Kathayoon Khalil, Zoo Advisors; Gabby Salazar, University of Florida; Kathryn Stevenson, NC State	Thursday, October 14	12:00pm	1:00pm	Hands-on Presentation	Live
Half-Earth Guided Inquiry: Mapping Charismatic Species to Understand Biodiversity Patterns	The Half-Earth Map charts data on the 3 most important factors for saving earth's biodiversity: where species live, global nature reserves, and human impacts such as agriculture and urbanization. Explore team-based, hands-on student inquiries using charismatic species like hummingbirds to explore the conservation data and stories of the Half-Earth Map.	Dennis Liu, E.O. Wilson Biodiversity Foundation	Thursday, October 14	12:00pm	1:00pm	Hands-on Presentation	Live
It's Our Air: Free Online Curricula	It's Our Air is a free on-line curriculum developed by the N.C. Division of Air Quality. It is based on research, but focused on actions that lead to a cleaner air. The workshop will prepare you to get the most out of the curricula and materials from your home.	Keith Bamberger, NC Division of Air Quality	Thursday, October 14	12:00pm	1:00pm	Hands-on Presentation	Live

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Strategic Storytelling for Social Change: A Rethink Outside Presentation	The stories we tell can impact social change. This hands-on workshop will build the capacity of environmental educators to craft compelling stories using the frame of the Rethink Outside shared narrative. Participants will leave with a story outline and an understanding of the power storytelling can have on our field.	Berkeley Bryant, Environmental Grantmakers Association, Blue Sky Funders Forum; Anupama Joshi, Blue Sky Funders Forum	Thursday, October 14	12:00pm	1:00pm	Hands-on Presentation	Live
Strategies for Developing Culturally Responsive Pedagogy and Organizational Culture	Explore how culture informs our place-based environmental education practices and policies, particularly as they relate to race and ethnicity. You will come away with: 1) a personal application of culturally responsive education practices, 2) knowledge from a recently completed case study, and 3) a plan for communicating your vision.	Carolyn Waters, Bellarmine University; Ashley Hoffman, Southeastern Environmental Education Alliance	Thursday, October 14	12:00pm	1:00pm	Hands-on Presentation	Live
Developing Teachers' Leadership Capacities through Action Research in Environmental Education	This symposium explores how Action Research can develop teachers' leadership capacities and enhance students' learning in Environmental & Sustainability Education (ESE) through a school board-university partnership. Research team members share their collaborative approach to research, how Action Research supports both students and teachers, and lessons learned from conducting research into ESE in K-12 classrooms.	Hilary J Inwood, OISE, University of Toronto; Pam Miller, Toronto District School Board; Alyse Kennedy, OISE (U of T)/TDSB/EECOM 2020	Thursday, October 14	12:00pm	1:00pm	Symposium	Live
Embroidering Edges in Learning Gardens: Biocultural-Diversity in Hills, Humus, Weeds	Come embroider poetic connections with living soil, messy complexity, reconciliation arts, and empowering mound-making to invert tidy colonial grids into biocultural-diversity-loving, arts-based, and polyvocal textures. Restoring and restoring connections is key to anti-racist and decolonizing education. Leave with practical approaches to facilitate decolonizing design of vibrant learning gardens.	Diafuz R. Williams, Portland State University; Susan Gail Gerofsky, University of British Columbia; Julie Vaudrin-Charette, Cégep de l'Outaouais; (Moderator) Mama Hauk, Institute for Earth Regenerative Studies & Prescott College	Thursday, October 14	12:00pm	1:00pm	Symposium	Live
Culturally Responsive and Equitable Evaluation (CREE) Tools and Approaches	How do you know if an evaluation tool and/or approach can work for your program? Here we share our experiences and knowledge on choosing CREE tools and approaches for program evaluation. We welcome your questions about how you may determine if a tool or approach will work for your program.	Liz DeMattia, Duke University; Ashlyn Teather, Duke University; Charlotte Clark, Duke Nicholas School of the Environment	Thursday, October 14	1:30pm	2:10pm	Roundtable Discussion	Live
Supporting youth-led community climate action in schools	This roundtable discussion led by the Toronto District School Board will focus on an exploration of how educators can best make space for and support youth-led climate inquiry and action, that reflects the needs and diversity of their communities, and is sensitive to histories of environmental racism.	Michele Martin, n/a; Kristen Evers	Thursday, October 14	1:30pm	2:10pm	Roundtable Discussion	Live
Connecting Middle Schoolers to Authentic Learning Through Citizen Science	The big question in middle school is always "Why are we learning this?" By connecting students to real scientific research, they become engaged in authentic learning. Their skill set and content knowledge grow as they feel connected to a larger scientific community. The ability to contribute meaningful work is powerful.	Jo Slavitz, Heronfield Academy	Thursday, October 14	1:30pm	2:10pm	Traditional Presentation	Live
Introducing the NAAEE Affiliate Toolkit	Join representatives from the NAAEE Affiliate Network to explore a new tool for Affiliate leaders, the NAAEE Affiliate Toolkit. In this session, we will present an overview of the toolkit, why it was created, and how we envision it being used by Affiliates, followed by ample time for testing and providing feedback on how it can be improved.	Sarah Bodor, NAAEE; David Catlin, David Catlin Consulting LLC;	Thursday, October 14	1:30pm	2:10pm	Traditional Presentation	Live
Pandemic Proof: Leveraging Technology and Partnerships to Engage Families Outdoors	In this session, you'll learn how Allegheny Land Trust managed to engage more than 4,500 people in environmental education programs during the COVID 19 pandemic. By working in conjunction with libraries, intermediate units and local nonprofit friends we provided more than 100 programs from March - December 2020 for our local communities.	Julie Travaglini, Allegheny Land Trust	Thursday, October 14	1:30pm	2:10pm	Traditional Presentation	Live
Teaching for Sustainable Communities: Empowering Global Citizens for Ecological Justice	This workshop is for educators who recognize the value and urgency of integrating environmental literacy and global competence into their curriculum that results in civic action. This K-12 program applies an ecological justice lens that centers the needs and welfare of environmentally challenged, diverse, and under-served communities to their teaching.	Barbara Doten, California International Studies Project; Kimi Waite, California Global Education Project & National Geographic Education; Lisa McAllister, California Global Education Project	Thursday, October 14	1:30pm	2:10pm	Traditional Presentation	Live
Understanding the Development of Environmental Sensitivity in Hispanic American College Students	This presentation explores the results and implications of a pilot study that investigated the development of Environmental Sensitivity (ES) in Hispanic American College Students. Conference participants will be asked to discuss how these results for this underrepresented population relates to them and to their	Danielle Pastor, Florida Institute of Technology; Thomas J. Marcinkowski, Florida Institute of Technology	Thursday, October 14	1:30pm	2:10pm	Traditional Presentation	Live
Updated and Revised! Environmental Education Materials: Guidelines for Excellence	NAAEE's Environmental Education Materials: Guidelines for Excellence, part of the Guidelines for Excellence series, provides a set of recommendations for developing and selecting EE instructional materials. We've just updated them. Come and get a sneak peek!	Bora Simmons, National Project for Excellence in Environmental Education	Thursday, October 14	1:30pm	2:10pm	Traditional Presentation	Live
NAAEE Fundraising Coaching	How do I start conversations that lead to bigger gifts? How can I get my board members more engaged in fundraising? Is this project right for corporate or foundation support? Am I doing ANY of this right? Whether you're new to fundraising or a seasoned professional, bring your questions to NAAEE's fundraising	Lea Harvey, LLH Strategy Advisors, LLC; Krishna Roy, Consultant	Thursday, October 14	2:30pm	3:10pm	Roundtable Discussion	Live
SCAPE 2.0: Water Quality for the Mountain West	SCAPE 2.0 combines online learning and field observations in living classrooms across the Mountain West. SCAPE-trained teachers introduce the history and ethics of water, methods for measuring in-stream flow, and techniques for testing water quality. Students come to know their location and responsibility as part of an interdependent system.	Jedd Tougas, Ronan High School; Krystal Brown, Gunnison Watershed School District; (Moderator) Dan Collins, Telluride Institute	Thursday, October 14	2:30pm	3:10pm	Roundtable Discussion	Live
By Youth for Youth: Creating Pathways to Environmental Careers	How can we raise youth awareness about the variety of opportunities to build an environmental career? Ask young people! Hear from youth and partners about how youth voice was centered in the development of a new resource for high school students to explore environmental careers.	Lisa Eadens, Colorado Alliance for Environmental Education; Katie M Navin, Colorado Alliance for Environmental Education; Scott Segerstrom, Colorado Youth Corps Association	Thursday, October 14	2:30pm	3:10pm	Traditional Presentation	Live
Common Ground: Engaging Indigenous Communities with a Collaboration-First Approach	Environmental educators seek to foster understanding and appreciation for the world around us. When engaging with Indigenous communities, such work entails a mutual journey. During this session, participants will learn about the work underway at national and state scales to effectively collaborate with Indigenous communities in adapting and delivering EE	Rocco Saracina, Sustainable Forestry Initiative; Laura Duffey	Thursday, October 14	2:30pm	3:10pm	Traditional Presentation	Live
Exploring the Environment with Project Learning Tree	New and all-time favorite activities come together in PLT's newest flagship resource, Explore Your Environment: K-8 Activity Guide. Receive an introduction to this supplemental curriculum that connects students to nature and green careers, experience a virtual activity modification, and explore online professional development to pave the way to an environmentally literate future.	Jaclyn Stallard, Project Learning Tree, Sustainable Forestry Initiative; Ana Leimer, Sustainable Forestry Initiative/Project Learning Tree; Rachel Lang, Project Learning Tree	Thursday, October 14	2:30pm	3:10pm	Traditional Presentation	Live
Flipping the EE Narrative	The traditional ee narrative can be depressing and paralyzing rather than motivating students to action. Learn about simple "swaps" that shift environmental education from a deficit-based to an asset-based approach, and explore research on empowering students to solve bite-sized, real-world problems to build confidence that they can make a difference in the world.	Karan Wood, Environmental Education Alliance; Jennifer McCoy, Cobb County Water System	Thursday, October 14	2:30pm	3:10pm	Traditional Presentation	Live
Preparing K-12 Educators Using Emergent and Effective Teacher Professional Development	For environmental education (EE) practitioners, providing teacher professional development (PD) is often essential in making meaningful connections in K-12 classrooms. What EE PD components are most effective in engaging teachers and helping implement EE in their classrooms? Find out what we learned through a case study of our teacher workshops.	Bianca Cassouto, The Everglades Foundation; Susan Toth, Everglades Foundation; Jennifer Diaz, The Everglades Foundation, Inc.; Erin Mitchell, Palm Beach Day Academy	Thursday, October 14	2:30pm	3:10pm	Traditional Presentation	Live

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Taking Environmental Literacy to Scale	States have made significant progress towards ensuring all students have meaningful environmental literacy programs built into their school day. This session will highlight strategic efforts from around the country that are supporting the establishment of sustainable, systemic environmental literacy programs at the state and school district level.	Steve C. Kerlin, Stroud Water Research Center; Amity Sandage, Santa Cruz County Office of Education; Shannon Sprague, NOAA Chesapeake Bay Office; Seabery Nachbar, NOAA Office of National Marine Sanctuaries; Amy Clark, NOAA Fisheries SERO; Nathan Corley, Louisiana Department of Education	Thursday, October 14	2:30pm	3:10pm	Traditional Presentation	Live
Connecting Spirituality & Environmental Education	Spiritual beliefs play an important role in shaping values and attitudes that influence behavior. Yet spiritual education is often forgotten in formal and nonformal education settings. This roundtable will focus on a critical question from a variety of faith perspectives: How can environmental education and spirituality benefit from increased connection?	Jenna Hoover, Waterwise Community Center, a program of Chino Basin Water Conservation District; Peter Blaze Corcoran, Florida Gulf Coast University	Thursday, October 14	5:15pm	5:55pm	Roundtable Discussion	Live
If We Serve the Underserved, Who Don't We Serve?	Access to EE constantly changes as policies are implemented. Our findings from San-Mateo County, show that privileged and marginalized groups have more access to EE whereas "the middle" is underserved. Researcher-Practitioner collaboration help navigate these changes. Join us to discuss potential strategies that can balance the ongoing changes in access.	Naama Sadan, University of California Berkeley; Andra Yeghoian, San Mateo County Office of Education	Thursday, October 14	5:15pm	5:55pm	Roundtable Discussion	Live
2020 to 2040: Visions for the Future of Environmental Education	The results are in! Four hundred and fifty EE professionals provided their visions for EE. In this session we share, for the first time, your priorities for the field, crowd-sourced strategies to achieve them, and shifting objectives in light of COVID-19 and the efforts to address racial injustice.	Gabby Salazar, University of Florida; Kenneth Rainer, University of Florida; Lauren Watkins, Impact by Design, Inc. & University of Florida; Martha C. Monroe, University of Florida; Sadie Hundemer, University of Florida	Thursday, October 14	5:15pm	5:55pm	Traditional Presentation	Live
Everyone Finds a Place When Nature Enters Urban Schools	Hear how urban school districts have created intentional spaces for children to learn about themselves and others as they forge deep connections with nature. Comprehensive benefits include improved health and sense of wellbeing, creative problem solving, and the ability to feel needed in a world of living things.	Heather Fox, Nature Explore/ Dimensions Educational Research Foundation; Ranae Amezcua, Los Angeles Unified School District	Thursday, October 14	5:15pm	5:55pm	Traditional Presentation	Live
Harnessing the Power of Coaching and Mentoring in EE Certification	Do you want to strengthen environmental educators' networks across your state? Looking for an opportunity to help program leaders shine? Come to our session on establishing a statewide mentoring program through EE certification!	Estrella Risinger, AEOE; Celeste Royer, Retired; Jennifer Marie Ortega, Humboldt State University	Thursday, October 14	5:15pm	5:55pm	Traditional Presentation	Live
Helping Students Connect with Nature and Cope with Environmental Loss	Feeling part of nature can open students to joy as well as difficult emotions as they learn about climate change and biodiversity loss. This presentation shows how to simultaneously increase students' connection with nature and promote healthy coping in the face of environmental change, including a hopeful commitment to action.	Louise Chawla, University of Colorado Boulder	Thursday, October 14	5:15pm	5:55pm	Traditional Presentation	Live
Regional EE Networks: A How-To Guide	Regional EE networks engage local educators and can significantly increase the scope and quality of local EE. Learn how to take advantage of these potential benefits, form your own network, explore two successful approaches, and become familiar with a new resource to help guide network formation.	Erin Sliney, Winchester Inspired by Nature; Billy Bennett, Kentucky Environmental Education Council; Daniel Kahl, University of Kentucky; Jeanine Huss, Western Kentucky University; Terry Wilson, Western Kentucky University	Thursday, October 14	5:15pm	5:55pm	Traditional Presentation	Live
We Are All Connected: Small Scale Programming with Big Impact	Learn about pivoting from repetitious programming to a diverse curriculum delivered to a few children in a safe way. Hear about how students connected with different cultures, experiences and personalities. With this knowledge, create your own enriching early childhood environmental education program without extensive resources and without a large investment.	Dana DeSousa, Greenburgh Nature Center; Danielle Callahan, The Greenburgh Nature Center	Thursday, October 14	5:15pm	5:55pm	Traditional Presentation	Live
EE and Citizenship under Pandemic – International Connection for Collaborative Study	How can EE enhance citizenship for sustainability in Asia, North America, and other regions? What implications can we discover from the experiences in different countries under the pandemic? This roundtable will create an opportunity for participants to explore the power of international connection for collaborative study to answer these questions.	Sachi Ninomiya-Lim, Tokai University; Kimiharu To, Aomori University; Ryo Sakurai, Ritsumeikan University; Shinichi Fuhhata, Tokyo University of Agriculture and Technology; Shih-Tsen Liu, National Taichung University of Education; Tomoko Mori, Kokushikan University	Thursday, October 14	6:15pm	6:55pm	Roundtable Discussion	Live
What's in a Word? Culturally Responsive and Equitable Evaluation	Come to this interactive session to get acquainted with terms and techniques used in evaluation, especially culturally responsive and equitable evaluation (CREE). We'll network, learn from each other, laugh, play, discuss different meanings, share resources, pose questions, and extend our EE practice. Plus, you just might win a prize!	Erin Carroll, Antioch University; Jean Chimbirira Kayira, Antioch University New England; Libby P McCann, Antioch University New England; Karyl Askew, Karyl Askew Consulting; Charlotte Clark, Duke Nicholas School of the Environment; Liz DeMattia, Duke University; Ashlyn Teather, Duke University; T'Noya Thompson, NAAEE	Thursday, October 14	6:15pm	6:55pm	Roundtable Discussion	Live
Buds of Collectivity: Engaging Youth in Collaborative and System-Oriented Action	How can educators support youth collective and civic action on climate change and other environmental challenges? We'll explore designs for learning opportunities that facilitate action across scales from individual behavior change to collaborative systemic transformation. This presentation will help practitioners mobilize research into practice for their classrooms and programs.	Kelsey Tayne, University of Colorado, Boulder	Thursday, October 14	6:15pm	6:55pm	Traditional Presentation	Live
Building Capacity for Equity: Learnings From California Outdoor Science Organizations	Learn how 10 California-based residential outdoor science organizations spent 2.5 years building capacity to foster equitable, inclusive and culturally relevant work environments. In this session, we'll share what we learned from our time with these organizations and professionals of color across the length of the program.	Craig Strang, Lawrence Hall of Science; Jemma Foreman, Lawrence Hall of Science	Thursday, October 14	6:15pm	6:55pm	Traditional Presentation	Live
Connecting with nature through local narratives? A Japanese case study	This study explores local narratives as a potential educational tool in a formal forest education program in Shiga Prefecture, Japan. The objective of this study is to examine the effects of local narratives on primary school students' understanding and attachment to local forests.	Junko Kondo, Kyoto University; Roger Baars, Kyoto University	Thursday, October 14	6:15pm	6:55pm	Traditional Presentation	Live
NAAEE's EE 30 Under 30 Changemaker Grantees	This session will feature a few of NAAEE's 2021 EE 30 Under 30 Changemaker Grantees sharing about their grant projects using environmental education to build sustainable communities around the world.	Nina Hamilton, NAAEE	Thursday, October 14	6:15pm	6:55pm	Traditional Presentation	Live
Shared Spaces: Connecting Children To The Natural World And Eachother	Utilizing urban public parks and spaces for outdoor programs can pose some challenges. However, they also provide unique opportunities for children to think about people's relationship with one another and our planet. If it can be accomplished in the concrete jungle of New York City, it can be done anywhere!	Jessica Winston, Beginnings Nursery School	Thursday, October 14	6:15pm	6:55pm	Traditional Presentation	Live
Weaving Community-Centered Climate Change Education into Secondary Classrooms	Learn how we used a secondary classroom teacher professional development course to model incorporating climate change focused phenomena, interests and identities of students, and collaboration with local tribes, climate scientists, and informal education programs. We'll share the challenges we faced, the lessons we learned, and connections to a statewide Climate project.	Brad Street, IslandWood	Thursday, October 14	6:15pm	6:55pm	Traditional Presentation	Live
Friday, October 15, 2021							
Cultivating Community Stewardship Through Aquaculture Literacy	Join this discussion to learn how the eeBLUE partnership is supporting high-quality aquaculture literacy programs. Learn how cross-sectoral partnerships are improving public awareness of their local aquaculture industries and their connections to working waterfronts through NOAA's Community of Practice for Aquaculture Literacy (CoPAL). Discover how you can get involved!	Brianna Shaughnessy, NOAA; Maggie Allen, NOAA; Christos Michalopoulos, NOAA	Friday, October 15	11:00am	11:40am	Roundtable Discussion	Live

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Designing a Solutions-First Climate Change Curriculum to Facilitate Student Action	How can we design an effective climate change curriculum that facilitates student empowerment and involvement in climate solutions? Join us to discuss how informal online learning can connect students with their local environment, and help them realize their ability to make a difference in their communities.	Addie Klimek, WOURLD Climate Education; Blake Blaze; Kimberly Dyrvik, Our World	Friday, October 15	11:00am	11:40am	Roundtable Discussion	Live
4-H Forestry For All	Come learn how to use virtual technologies to overcome transportation and access barriers, creating a high-quality hybrid forestry program. The state-wide forestry program used virtual tools and regional field sessions to expose teens interested in pursuing natural resources careers and/or fields of study to high caliber field experts and professionals.	Amy Lang, University of MD Extension; Agnes Kedmencz, University of Maryland	Friday, October 15	11:00am	11:40am	Traditional Presentation	Live
Context Matters: Acknowledging Students' Social, Cultural and Political Backgrounds	Students are shaped by today's increasingly polarized society. How can recognizing students' social, cultural, and political differences help us create more effective programs that lead to better outcomes for our learners? Join us to explore evidence-based practices for facilitating more inclusive and relevant environmental education experiences.	Malia Pownall, Virginia Tech; Emily Thorpe, Virginia Tech	Friday, October 15	11:00am	11:40am	Traditional Presentation	Live
Engaging Youth Clubs in Community Action	CAPE, Community Action Projects for the Environment, is a new 4-H program that involves youth clubs in civic engagement to help address environmental issues. Currently being tested in Florida, CAPE will become available to other state 4-H programs through ee360+. We will discuss our needs assessment results and action process.	Martha C. Monroe, University of Florida; Gabby Salazar, University of Florida; Jessica Ireland, University of Florida; Ailee Odom; Sarah West Davis, UF/IFAS Extension Sarasota County; Mary Beth Kerr, University of Florida/IFAS Extension; Grace Carter, UF/IFAS Extension Duval County; Kimberly Davis, Florida A&M University Cooperative Extension	Friday, October 15	11:00am	11:40am	Traditional Presentation	Live
Green Schools Partnerships Expand the "We" and Address Regional Needs	In 2021, Missouri Green Schools established a Partner Network to help Missouri schools "go green". Learn how this Network is designed to educate Partners on the varied needs in schools, especially under-resourced schools; expand this group's sense of collective responsibility for our children; and address gaps in Network support services.	Lesli Moylan, Missouri Environmental Education Association; Hope Gribble, U.S. Green Building Council - Missouri Gateway Chapter	Friday, October 15	11:00am	11:40am	Traditional Presentation	Live
Overcoming Religious Apartheid To Create An Environmental Movement	A schools system built on religious apartheid and political intransigence to change the status quo in Northern Ireland challenged Keep Northern Ireland Beautiful as it sought to engage cross-community support for local environmental action. This session shares the mistakes, lessons learnt and eventual successes of the resulting initiative.	Ian Humphreys, Keep Northern Ireland Beautiful; Scott Howes, Keep Northern Ireland Beautiful; Charlene McKeown, Keep Northern Ireland Beautiful; (Moderator) Claire Leonard, Keep Northern Ireland Beautiful	Friday, October 15	11:00am	11:40am	Traditional Presentation	Live
The Illinois Nature Notebook Project	Learn how this project connects middle schoolers and their families and teachers to local green spaces using a scaffolded approach to inquiry through place-based and experiential learning. This program seems to empower youth to interpret their communities in new ways and foster a deeper appreciation for, and connection to, nature.	Samantha Lindgren, University of Illinois Urbana-Champaign; Susan Gasper, University of Illinois Extension; Abigail Garofalo, University of Illinois Extension; Meghan McCleary, University of Illinois Extension; Amanda Nieves, Forest Preserves of Cook County; Wendy Dorman, University of Illinois Urbana-Champaign	Friday, October 15	11:00am	11:40am	Traditional Presentation	Live
Don't Waste It! A New Solid Waste and Recycling Curriculum	Don't Waste It! is an educator guide to waste management, recycling, composting, and waste reduction supporting K-12 learning in and out of the classroom. Learn about the curriculum, demo a lesson or two, and maybe even uncover a few of your own outdated recycling habits in this sampler.	Lauren Pyle, Environmental Educators of North Carolina	Friday, October 15	12:00pm	1:00pm	Hands-on Presentation	Live
Ecotopia v Zombie Apocalypse: Virtual Collaborative Writing Game	At the fertile intersection of the mythic, the monstrous, and the possible, the collaborative writing game "Ecotopia versus Zombie Apocalypse" fosters connective resilience. Come with your quills and your wild imagination to engage in group genius in service of deep diversity experimenting with this virtual learning curriculum.	Mama Hauk, Institute for Earth Regenerative Studies & Prescott College	Friday, October 15	12:00pm	1:00pm	Hands-on Presentation	Live
Green House: Play A Climate Solutions Game	Green House game invites players to come together to solve the climate crisis. Can we collectively play enough solutions before we lose to bankruptcy, over-pollution, or hopelessness? Each action card represents a real climate solution that will get you and your students inspired and involved.	Alix Dvorak; Kristie Wagner, K-12 Science; Sam Bower, NAAEE	Friday, October 15	12:00pm	1:00pm	Hands-on Presentation	Live
Moving Field Guide 101: A Kinesthetic Approach to Environmental Education	Get to know the Moving Field Guide, a creative approach to environmental education. Led by Dance Exchange Executive Artistic Director Cassie Meador and coastal ecologist and artist Dr. Jame McCray, this hands-on session will get you moving together while learning how to lead a Moving Field Guide.	Cassie Meador, Dance Exchange; Jame McCray, Alliance for Watershed Education	Friday, October 15	12:00pm	1:00pm	Hands-on Presentation	Live
Supporting Student Resilience by Using Outdoor Spaces for Health, Learning, and Play	The founding partners of the National COVID-19 Outdoor Learning Initiative and key collaborators will share resources and ideas related to the benefits of using the abundant fresh air and access to nature to reduce virus transmission and improve students' physical and mental health and well-being, learning, and play during the pandemic and beyond.	Craig Strang, Lawrence Hall of Science; Andra Yeghoian, San Mateo County Office of Education; Rachel Pringle Pringle, Green Schoolyards America; (Moderator) Karen Cowe, Ten Strands	Friday, October 15	12:00pm	1:00pm	Hands-on Presentation	Live
What's in an Environmental Education Culturally Responsive, Equitable Evaluation Process?	Journey with us to explore a framework for environmental education culturally responsive, equitable evaluation guided by six core values: equity in motion, authentic engagement, deep curiosity, lifelong learning and critical reflection, high-quality evaluation, and collective evaluation. Join us to explore enacting the values to achieve programmatic and social change.	Karyl Askew, Karyl Askew Consulting; Charlotte Clark, Duke Nicholas School of the Environment; Jean Chimbinia Keyira, Antioch University New England; Libby P McCann, Antioch University New England; Charissa Virginia Jones, OSU Extension Service - Outdoor School; Luciana Ranelli, Antioch University New England; Spirit Brooks, Oregon State University	Friday, October 15	12:00pm	1:00pm	Hands-on Presentation	Live
Breaking Barriers by Using Citizen Science for Environmental Education	In this lively discussion, Youth Learning as Citizen Environmental Scientists (YLACES) grantees from schools and informal education centers serving marginalized students in both rural and urban settings will share how they incorporate environmental measurements and student research projects into climate education.	Dixon Butler, Youth Learning as Citizen Environmental Scientists; Jennifer Bourgeois, Leitzel Center GLOBE Partnership at UNH; Roger Rose, Alpena School District; Samantha Battersby, Alice Ferguson Foundation	Friday, October 15	12:00pm	1:00pm	Symposium	Live
Leadership Case Studies: County Offices of Education's Early Environmental Literacy Coordinators	Explore case studies of proven approaches to developing equity-focused environmental literacy leadership capacities in county offices of education. Explore how environmental literacy coordinators support administrators and educators to connect the environment to standards-based learning and sustainable facilities and operations, and to orchestrate partnerships with diverse community-based partners and agencies.	Amy Frame, Ten Strands; Andra Yeghoian, San Mateo County Office of Education; Lori Kiessler, Inside the Outdoors Foundation; Naama Sadan, University of California Berkeley	Friday, October 15	12:00pm	1:00pm	Symposium	Live
Connecting Youth to Their (Just) City Through Innovative Education Programs	Many cities have issued Resiliency and Climate Action Plans into their official guidelines as a response to the impacts of climate change and environmental injustice. These programs for our future will not be just if they don't integrate with youth curriculum and leadership programs in a reciprocal way. Let's discuss!!	Maureen Ferry, HouseStories Inc	Friday, October 15	1:30pm	2:10pm	Roundtable Discussion	Live
Policy Panels: Connecting Educators and Students with Local Decision-Makers	Join Earth Force to get inspired to host a local policy panel to connect educators, students, and decision-makers. These panels work towards creating community change and advancing EE civic learning opportunities. This Roundtable will include presenters with an array of experiences in hosting policy panels. The majority of our time will be dedicated to participant Q&A.	Grace Edinger, Earth Force; Alyssa McConkey, Earth Force	Friday, October 15	1:30pm	2:10pm	Roundtable Discussion	Live
Capacity-Building for Youth Civic Leadership for Issues in Science and Society (CYCLIST)	This three year IMLS project has built a community of practice including educators and evaluators from across the country to share in best practices and conversations about civic engagement in youth programs at Informal Science Learning Centers. We will share the toolkit that was built during this project.	Liz Georgakopoulos, New England Aquarium; Jen Kretzer, The Wild Center; Rupu Gupta, Knology	Friday, October 15	1:30pm	2:10pm	Traditional Presentation	Live

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Deepening Professional Learning in Environmental & Sustainability Education through School-University Partnerships	This session introduces an innovative collaboration that integrates professional learning for preservice and inservice teachers. It introduces the key elements of this unique school-university partnership, which uses year-round programming and research to create a new model for integrated professional learning in Environmental & Sustainability Education.	Hilary J Inwood, OISE, University of Toronto; Pam Miller, Toronto District School Board	Friday, October 15	1:30pm	2:10pm	Traditional Presentation	Live
Growing Arts and Community in Your School Garden	AACA is an arts-integrated elementary school which has recently created a native pollinator garden on our school's campus. This session will map out how we grow connection to our community through art and service in our garden.	Rebecca Manuel, Alphonsus Academy and Center for the Arts	Friday, October 15	1:30pm	2:10pm	Traditional Presentation	Live
Nature Stories Change the World	How can nature stories help children and youth develop a critical understanding of nature and social justice? Make connections between environmental literature and critical literacy to support eco-and social justice awareness in children and youth. Leave the session with specific strategies and an intentional plan for the use of environmental literature with children of all ages.	Patty Bom, Hamline University School of Education	Friday, October 15	1:30pm	2:10pm	Traditional Presentation	Live
Tackling Climate Change Solutions Through Education	Join Climate Generation, a national leader in climate change education, as we investigate solutions to climate change that you and your students can implement within your own communities. We will explore projects and discuss curriculum that excites and engages your students in actively slowing climate change impacts.	Seth Spencer, Climate Generation	Friday, October 15	1:30pm	2:10pm	Traditional Presentation	Live
Drawing conclusions: Children's representations of the environment in Hawai'i	Children's representations of the environment are shaped by social, physical and increasingly, virtual spaces. This interactive session presents children's drawings from Hawai'i (collected just prior to COVID-19 lockdowns) to discuss the connections between global and local issues within a place-based curriculum, and its implications for an inclusive environmental education.	Bryan Wee, University of Colorado Denver; Ben Crawford, University of Colorado; Amy DePierre, University of Colorado, Denver	Friday, October 15	2:30pm	3:10pm	Roundtable Discussion	Live
Leveraging Your Post-Pandemic "Seat at the Organizational Table"	The pandemic has been the ultimate "teachable moment" in how we envision our work. Participants will explore ways they "pivoted" their work in EE program engagement while sharing lessons learned through the ever-changing landscape. Facilitated group discussion will create an Action Plan for participants to implement at their home organization.	Nancy Hotchkiss, Pathways Collaborative; Julie Henry, Pathways Collaborative; Nette Pletcher, Pathways Collaborative; Terry O'Connor, Pathways Collaborative	Friday, October 15	2:30pm	3:10pm	Roundtable Discussion	Live
Advancing Environmental Literacy: A New Framework for Illinois	From research to writing to implementation, this session will describe the process Illinois environmental education leaders utilized to draft a new environmental literacy framework. Find out why it's no longer called an Environmental Literacy Plan and the intentional steps taken to center justice, equity, diversity, inclusion and accessibility at all stages.	Abbie Enlund, Environmental Education Association of Illinois; Amañs Alanis Ribeiro, North Park Village Nature Center	Friday, October 15	2:30pm	3:10pm	Traditional Presentation	Live
Building Capacity for Environmental Education in Ukraine	Two different initiatives have been launched in Ukraine to support local efforts in building the capacity of public gardens education staff, Ukrainian national park staff and youth educators to develop and improve environmental education in diverse settings. Learn how these two programs are helping to build the future for EE in Ukraine.	Ariadna Reid, Partnerships for Nature; Anthony Allison, PARTNERSHIPS FOR NATURE; (Moderator) Chuck Lennox, Lennox Insites	Friday, October 15	2:30pm	3:10pm	Traditional Presentation	Live
Enhancing Impact with Youth – Lessons from EarthEcho Water Challenge Ambassadors	The EarthEcho Water Challenge Ambassador program has activated a nationwide community of youth leaders to increase the impact of a global water quality monitoring program. Join the EarthEcho team to explore lessons learned through this work and ideas for engaging youth leaders in expanding established environmental education programs.	Sean Russell, EarthEcho International; Porschness Ray, EarthEcho International	Friday, October 15	2:30pm	3:10pm	Traditional Presentation	Live
Exploring Benefits and Challenges of Green Schools in Underrepresented Communities of California	What are green school benefits when viewed through a lens of equity and inclusion? Research with under-represented California schools that participate in green award programs will showcase specific ways that students and schools enter, benefit from, and bring their own focus to green school practices.	Victoria Derr, California State University, Monterey Bay; Cristan Moinelini-Ruberto, California State University, Monterey Bay; Red Glines, CSUMB	Friday, October 15	2:30pm	3:10pm	Traditional Presentation	Live
Improving Evaluation Processes and Practitioner Satisfaction in Environmental Education	Are you satisfied with your organization's evaluation processes? We conducted a study to further understand the state of evaluation in environmental education and identify areas and pathways for improving evaluation processes and practitioner satisfaction. We will discuss the benefits of adaptive management and using evaluation to inform programmatic improvement.	Kelley Anderson, Virginia Tech	Friday, October 15	2:30pm	3:10pm	Traditional Presentation	Live
Pivot! Creating Engaging Virtual Environmental Education Programming	The education team at the San Antonio River Authority was challenged to transform its outdoor-based environmental education program into a virtual format that would be equally as engaging to students throughout the watershed. This presentation will discuss the lessons learned in creating new virtual programming.	Janine Garcia, San Antonio River Authority	Friday, October 15	2:30pm	3:10pm	Traditional Presentation	Live
State Policy for Youth Outdoor Engagement	Across the U.S., states are adopting innovative policies to break down barriers to access to outdoor learning and exploration. During this roundtable discussion, members of the Youth Outdoor Policy Partnership will share effective state policies from 2021 and invite participants to share state-level advocacy efforts they're working on or would like to learn more about.	Sarah Bodor, NAAEE	Friday, October 15	3:30pm	4:10pm	Roundtable Discussion	Live
Supporting Secondary Science Teachers Taking on Global Climate Change Through NGSS	This roundtable will provide an overview of a multi-day global climate change program created to support secondary science teachers leveraging the NGSS. Program design details, key takeaways, and resources will be highlighted and provided to all attendees.	Kelley Le, UCI Science Project & RRISE UP Nonprofit	Friday, October 15	3:30pm	4:10pm	Roundtable Discussion	Live
Engaging your Community with How's My Waterway-Your Water Story	How's My Waterway was designed to educate and empower members of the public to communicate water quality information to their community. While exploring a local watershed, citizens will be inspired to protect and restore their water while planning for more resilient communities in the future.	Dwane Young, US EPA; Kiki Schneider, EPA; (Moderator) Cynthia N Johnson, US EPA	Friday, October 15	3:30pm	4:10pm	Traditional Presentation	Live
Forming a Network for (Emerging) CREE Evaluation Leaders	In building a culture of and capacity for culturally responsive EE evaluation, including evaluation that spans across programs, an emergent theme is that people leading these efforts need support. Here, we will begin to co-create a community of practice for (emerging) evaluation leaders to support one another and the work.	Kathryn Stevenson, NC State University; Steven Braun, eeRISE LLC; Lauren Gibson, North Carolina State University; Charlotte Clark, Duke Nicholas School of the Environment	Friday, October 15	3:30pm	4:10pm	Traditional Presentation	Live
Investigating the Environmental Impacts of a Statewide Green School Program	What is the environmental impact of the Maryland Green Schools program across the state? We will provide examples of local positive environmental impact that can be attributed to students and faculty of Green Schools. Additionally, we will provide information regarding logistics and program implementation so that participants from other states may replicate.	Ayla McDonough, Towson University; Sarah Haines, Towson University	Friday, October 15	3:30pm	4:10pm	Traditional Presentation	Live
NAAEE's EE 30 Under 30 Class of 2021 #2	This session features leaders from the EE 30 Under 30 class of 2021, representing a variety of perspectives and approaches on one pertinent topic in EE.	Nina Hamilton, NAAEE	Friday, October 15	3:30pm	4:10pm	Traditional Presentation	Live
Out-of-School Time Online Learning Experiences for Family Engagement in Ecological Explorations	How can online experiences encourage families to learn about the natural world together? 4-H Family Fun Online is a series being piloted through Cornell Cooperative Extension. The project design is based on online and social learning theories. Outcomes from two pilot activities show consistent practices and unique opportunities encourage participation.	Celeste Carmichael, Cornell Cooperative Extension	Friday, October 15	3:30pm	4:10pm	Traditional Presentation	Live

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What Emerging Leaders in EE Need to Lead	A career pathways study conducted as part of ee360 revealed not only what the pathways through careers in EE look like, but also what educators wish they had known when they moved into leadership positions. This session will share key insights obtained through this study.	Joe E. E. Heimlich, COSI; Laura Weiss, COSI CRE; Rebecca Kemper, COSI CRE	Friday, October 15	3:30pm	4:10pm	Traditional Presentation	Live
Climate Storytelling: Strategies for Engaging Youth and Advancing Community Resilience	Climate storytelling is a powerful tool that youth and climate educators can leverage to create change in their communities. During this session, presenters will discuss how underrepresented teenagers in the Youth Engaged in the Science of Resilience program used a story scaffolding to create and share their own climate stories.	Leticia Tuset, UNC Institute for the Environment; Hannah Barg, NC Museum of Natural Sciences: YES-Resilience Program; Dana Haine, UNC-Chapel Hill Institute for the Environment; Sarah Yelton, UNC Institute for the Environment	Friday, October 15	4:30pm	5:10pm	Traditional Presentation	Live
Counterstories of Land and Environment: Building Culturally Responsive Environmental Education from the Community Out	Most outdoor environmental education programs claim to be "place-based.". Place embodies narratives and connections to cultural and community experiences, values, and history. In this presentation, we discuss our community-based collaborative project and the strategies we use to unpack and redefine "place" and environment through community embedded design and	Corey J Knox, University of Arizona; Colin Waite, University of Arizona - Cooper Center for Environmental Learning; Bruce Johnson, University of Arizona; Norma Gonzalez, Tucson Unified School District	Friday, October 15	4:30pm	5:10pm	Traditional Presentation	Live
Hey stop swinging that stick!: shifting our language to support problem solving skills	Have you ever found yourself using words like "no," "stop," "don't" to express expectations to young children? In this session we will go into detail about how to make language shifts that tell children what they CAN do and why this is helpful for their brain development.	Jenn Leibham, Nature Play Lifestyle	Friday, October 15	4:30pm	5:10pm	Traditional Presentation	Live
Increasing Your Membership Without Increasing Your Budget	Is your Affiliate struggling with membership numbers and engagement? Learn how the Pennsylvania Affiliate (PAEE) was able to increase our membership by almost 20% without placing a strain on our organizational budget.	Stacey Widenhofer, PAEE	Friday, October 15	4:30pm	5:10pm	Traditional Presentation	Live
Right as Rain: coalition building for meaningful schoolyard stormwater infrastructure	Learn how IslandWood, an informal education nonprofit, works in collaboration with Seattle partners to engage students and teachers in learning and action to build rain gardens at schools. We'll share our partnership model and projects that highlight successes and challenges.	Celina Steiger, IslandWood; Erin Irbay; Thabisa Mazur	Friday, October 15	4:30pm	5:10pm	Traditional Presentation	Live
Wild Shaale: Transforming children's attitudes through environmental education in India	Wild Shaale is an environmental education program in India for village children living around wildlife reserves and exposed to frequent human-wildlife conflict. It aims to increase environmental literacy and foster tolerance toward wildlife and wild places. It has reached over 20,000 students and ongoing evaluation shows that it is working.	Krithi Karanth, Centre for Wildlife Studies; Gabby Salazar, University of Florida	Friday, October 15	4:30pm	5:10pm	Traditional Presentation	Live
Youth Leadership for Environmental Action	Asia and the Pacific alone is home to around 60 percent of the global population aged 15 to 24 years.EARTHDAY.ORG launched #MyFutureMyVoice initiative that brings young environmental leaders together to Restore our Earth. This session will highlight these champions and few best practices from the campaign.	Nishu Soni, EARTHDAY.ORG	Friday, October 15	4:30pm	5:10pm	Traditional Presentation	Live