

2022 Conference Preliminary Schedule: Virtual Sessions

Title	Summary	Participants	Date	Start Time Mountain Standard Time	End Time Mountain Standard Time	Session Format	Delivery Method
<p><i>Arizona does not observe Daylight Saving Time. All session times are indicated in Mountain Standard Time; Mountain Standard Time is equivalent to Pacific Daylight Time.</i></p> <p><i>This is a preliminary schedule; sessions, times, and presenters are subject to change. The final schedule will be available through the conference platform when it launches in October. The platform includes the opportunity to add sessions to your calendar.</i></p>							
Virtual Pre-Conference Workshops (pre-registration and additional fee required)							
Building Capacity for Justice-Centered Climate Change Education	Climate Generation and 26 organizations across North America are developing a model for centering justice in climate change education for our annual Summer Institute for Climate Change Education. Join us in an interactive workshop to explore the dimensions of planning that create justice-centered environmental education programming and discuss key learnings.	Lindsay Kirkland, Climate Generation; Seth Spencer, Climate Generation; Sarah R Johnson, Wild Rose Education; Amy Frame, Ten Strands; Gina Florie, Cooperative Institute for Research in Environmental Sciences (CIRES)	Thursday, October 6	9:30am	1:00pm	Workshop	virtual-live (Zoom session)
Nature-Based Charter Schools to Increase the Accessibility of Environmental Education	One of the greatest challenges in nature based education is accessibility. Charter Schools provide a path to create accessible public schools that focus on Environmental Education. These schools make nature based education available to a diverse group of families priced out of other options. Join us to learn more about this model.	Jessica Lehson, Watershed Public Charter School	Thursday, October 6	9:30am	1:00pm	Workshop	virtual-live (Zoom session)
Ocean Literacy and E-STEM to Empower Youth in Climate Action	Working in ocean conservation in a developing country has taught us that E-STEM is a key component to promote Ocean Literacy and empower youth to create innovative solutions and tackle climate change. Join us in a hands-on workshop on how to empower young ocean leaders for a better tomorrow.	Carlos Perez Murcia, Fundación Mundo Azul, Centro CIMAP; Hazel Araujo, Semillas del Océano	Thursday, October 6	9:30am	1:00pm	Workshop	virtual-live (Zoom session)
How to Teach Climate Change Effectively	Climate change is the most complex challenge facing humankind today and it's essential that schools engage students in meaningful learning and action. Educators are looking for effective ways to teach this difficult and nuanced issue. Join us for a lively workshop to share research, strategies, and resources to actively teach climate education.	Michele Michele Martin, n/a; Melanie Williams, LSF-LST	Friday, October 7	9:30am	1:00pm	Workshop	virtual-live (Zoom session)
Re-Storying, Gamifying and Reconciling Environmental Education for a Regenerative Future	Building a regenerative future is a fundamentally integrative endeavor, one that requires diverse ways of knowing, relating, and playing. Experience Natural Curiosity's transformative inquiry framework deepened by Indigenous perspectives, Green Teacher's resources that highlight place-based storytelling as a pedagogical tool, and Springbay's award-winning games designed to encourage real-world climate actions.	Jane Ji, Springbay Studio; Haley Higdon, Natural Curiosity; Ian Shanahan, Green Teacher	Friday, October 7	9:30am	1:00pm	Workshop	virtual-live (Zoom session)
Know Your Audience: Empowering Effective Climate Change Communicators	In this interactive workshop, we'll use Yale Program on Climate Change Communication (YPCCC) resources to explore how understanding your audience is critical to engaging people in climate change issues and combating climate change denial. Participants will be equipped with tools to bring back to their learners empowering them to be effective climate change communicators.	Ruthie Gold	October 12– October 15	9:30am	1:00pm	Workshop	virtual-live (Zoom session)
Thrive Naturally	Current research indicates that programs intentionally blending positive youth development (PYD) and nature-based goals result in enhanced outcomes for both. Experience a highly interactive set of nature-based PYD lessons to discover why participants thrive with increased confidence and social skills, while experiencing increased affinity for nature.	Amy Lang, University of MD Extension	October 12– October 15	9:30am	1:00pm	Workshop	virtual-live (Zoom session)
Virtual-Live Sessions (Thursday–Saturday)							
Get Outside for Learning!	This panel discussion moderated by Learning for a Sustainable Future will explore the extensive benefits of extending classroom learning to the outdoors. Featuring diverse perspectives including a K-6 teacher, principal, and pre-service educator we will delve into why nature is an incredibly powerful resource for learning, sustainability education, and development.	Janice Haines, Learning for a Sustainable Future; Pamela Gibson, Learning for a Sustainable Future	Thursday, October 13	8:30am	10:00am	Symposium	virtual-live (Zoom session)

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Improving Coastal Resilience Through Community-Driven Science Education	Socio-environmental justice concerns are especially evident in the U.S. Gulf South. We use theory, research-based best practices, and our experiences in community-driven UHI mapping and mitigation efforts and academic service-learning to suggest that cultivating long-term, mutually beneficial relationships is key to equity-driven resilience in frontline communities across the Gulf South.	Rachel Gisewhite, University of Southern Mississippi; Christopher Foley, University of Southern Mississippi	Thursday, October 13	10:30am	11:10am	Traditional Presentation	virtual-live (Zoom session)
Reclaiming Western Spiritual Traditions to Advance Youth Environmental Leadership	The Emayich Yonim Fellowship was established in memory of Yonim, a young environmental leader and spiritual seeker who died at the age of 21. We created a conceptual model based on compassionate systems thinking and shared text learning to support youth in finding language for environmental leadership in their own tradition.	Naama Sadan, University of California Berkeley; Ariel Evan Mayse, Stanford University; Baruch Rock, Irvine Hebrew Day School	Thursday, October 13	10:30am	11:10am	Traditional Presentation	virtual-live (Zoom session)
Civic Engagement: Capture the Power of Your Ideas	Advocacy plays a crucial role in civic engagement. Learn a proven strategy to make your point, make it fast and make it matter – in talks, opinion or persuasive writing, and other forms of civic engagement. Award-winning journalist and author Margot Lester helps you capture the power of your ideas.	Margot Lester, The Word Factory	Thursday, October 13	2:15pm	3:45pm	Hands-on Presentation	virtual-live (Zoom session)
Improving Food System Equity and Sustainability Through Project-based, Place-based Learning	Despite widespread hunger, 40% of all food produced in the United States is wasted. K-12 education is key to solving our broken food system and minimizing impacts of food waste. A project-based, place-based curriculum module teaches students how their behavior and actions can improve the sustainability of our food system.	Miranda Wolf, Clarkson University; Jan DeWaters, Clarkson University	Thursday, October 13	4:00pm	5:30pm	Hands-on Presentation	virtual-live (Zoom session)
Teaching Climate Hope to Develop and Empower Student Leadership	Hear from a panel of culturally diverse adult education students how lessons infused with climate change education have inspired and empowered them to take action, cultivate hope, and develop leadership within their families and communities. Teaching resources will be shared, including a unit on "Climate Hope," incorporating two federal teaching initiatives.	S. Donya Meggs, Pima Community College ABECC; Mariana Carretero-Yerbes, Pima Community College ABECC; Kristin Martin, Pima Community College ABECC	Thursday, October 13	4:00pm	5:30pm	Symposium	virtual-live (Zoom session)
ESE in the English-Speaking Caribbean: From Research to Practice	The imperatives of ESE are clear for the Caribbean region, given the various sustainability issues with which these countries contend. Notwithstanding this, the region is often underrepresented in the literature. This session highlights theoretical discussions and research findings emanating from Special Issue articles of the Journal Environmental Education Research and their implications for practice.	Therese Ferguson, The University of the West Indies; Sharon Bramwell-Lalor, The University of the West Indies; Miquel Ision, University of the West Indies (Mona); Joanne Nazir, University of the West Indies St. Augustine; Momoe Kanada; Clavia Williams-McBean, The University of the West Indies (Mona)	Friday, October 14	8:30am	10:00am	Symposium	virtual-live (Zoom session)
Nature Play: Using The Seasons As Your Curriculum	Let's get outside! Playing and learning outdoors grows resilience, self-confidence, initiative, creativity, and more. We will explore engaging ways to develop nature connections in your environments through the seasons as a foundation for curriculum for early childhood settings. We will dive into planned and emergent experiences with nature and natural play spaces.	Heather Quinn, Hummingbird Hill Nature Preschool	Friday, October 14	8:30am	10:00am	Hands-on Presentation	virtual-live (Zoom session)
Advancing Environmental Education Practice	Advancing EE Practice is a free downloadable book published by Cornell University Press. It reviews research and presents assessment tools for a myriad of EE outcomes: learning about EE and social capital, sense of place, positive youth development, among other outcomes.	Marianne Krasny, Cornell University	Friday, October 14	10:30am	11:10am	Traditional Presentation	virtual-live (Zoom session)
Listening to Youth: Insights from Collaborative Participatory Action Research	Informed, but bored and overwhelmed - just some students' sentiments about their climate change education. Our session shares ways to pragmatically counter such feelings and shift school practices. We share a novel form of activism centered around youth voice in collaborative participatory action research and the resulting bespoke outcomes at schools.	Smriti Safaya, University of York, UK / CitizenScience.Asia; Michelle Reyes, International College Hong Kong; Yu Christine, G.T. (Ellen Yeung) College	Friday, October 14	10:30am	11:10am	Traditional Presentation	virtual-live (Zoom session)

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Climate Empowerment: Challenges and Opportunity to Accelerate Just Climate Actions	Be part of something big and help address the challenges of the climate crisis. To advance a decarbonized, regenerating world that supports the well-being of all, we need unprecedented climate action. Join us to explore the challenges and opportunities for how all sectors of society can accelerate just climate actions.	Frank Niepold II, NOAA Climate Program Officer; Deb Morrison, University of Washington; Jen Kretzer, The Wild Center; Sarah Pidgeon, Solar One; Gina LaMotte, EcoRise; Laura Florence	Friday, October 14	2:15pm	3:45pm	Symposium	virtual-live (Zoom session)
Let's Sing! Make Music Part of Your EE Program Today	Singing! Clapping! Stomping! Creative music-making is a powerful tool that can engage learners of all ages and abilities. So, how do you infuse it into your EE programming? We will lead you through a step-by-step collaborative songwriting process, culminating in the creation of an original composition. No musical background needed!	Emily Rew, San Antonio River Authority	Friday, October 14	2:15pm	3:45pm	Hands-on Presentation	virtual-live (Zoom session)
Free Water + Climate Action Game + Hands-On Resources	The Astounding Adventures of Marco the Water Molecule" video game and supporting resources are being developed with partners to engage all ages in learning about water, extreme weather, and ways to take action to reduce risks from climate change. Join us to help shape the program and change the world!	Rick Reynolds, Engaging Every Student	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	virtual-live (Zoom session)
Maximizing Research-Practitioner Partnerships to Inform Holistic Environmental Learning	The Urban Ecology Center's Outdoor Leader Program aims to introduce diverse high schoolers to various environmental career possibilities. This presentation aims to share lessons learned from an ongoing research-practitioner partnership between the Urban Ecology Center and the Pennsylvania State University. Implications for both process and practice will be discussed.	Tim Mateer, Shaver's Creek Environmental Center and the Pennsylvania State University; Danielle Frank Lawson, The Pennsylvania State University; D. Derrick Taft, Penn State University	Friday, October 14	4:00pm	4:40pm	Traditional Presentation	virtual-live (Zoom session)
Nature: A Pathway for English Language Learners to Blossom	Let's walk, talk and learn with each other. I will share my experiences and those of adult learners whose English language skills blossomed when I integrated outdoor activities into our lessons. From Everybody Needs A Rock by B. Bayler to student created neighborhood guides, nature's restorative effect supported their progress.	Hope Blecher, hope4education	Saturday, October 15	9:20am	10:00am	Traditional Presentation	virtual-live (Zoom session)
Working Toward Racial Equity: Systems Change in EE Organizations	This presentation depicts the collaboration between research and program teams in designing, delivering and studying the Working Toward Racial Equity program. We'll engage leadership (managers, CEOs, program directors, etc.) in considering the need for adopting systems change practices to move EE organizations toward racial equity and to foster inclusion.	Jedda Foreman, Lawrence Hall of Science; Craig Strang, Lawrence Hall of Science; Valeria Fike Romero, Lawrence Hall of Science, University of California Berkeley; Ina Chomsky, Informing Change; (Session Contact Only) Kelly Grindstaff, Lawrence Hall of Science, UC Berkeley	Saturday, October 15	10:30am	11:10am	Traditional Presentation	virtual-live (Zoom session)
Responding to Legislative Attacks on LGBQT+ Communities in (Environmental) Education	During the 2022 legislative session, states introduced hundreds of bills targeting marginalized communities, especially LGBQT+ youth. This session will provide an overview of these legislative attacks and impacts on the field of environmental education. Presenters will also share strategies to support LGBQT+ youth during these troubling times.	Yarrow Koning, Florida Atlantic University; Charissa Virginia Jones, OSU Extension Service --Outdoor School; Elizabeth A. VanWye, City of Ashland Parks and Recreation	Saturday, October 15	11:20am	12:00pm	Traditional Presentation	virtual-live (Zoom session)
Youth Marine Debris Action Planning: Engagement to Motivate Behavior Change	Through organization, detailed discussion, and collaboration, students can engage in efforts to address marine debris that mirror the work of professionals in the field. Youth Marine Debris Action Planning brings SMART goals for the environment to life in the community in a way that is guided by motivated youth.	Alexandria Brake, NOAA	Saturday, October 15	11:20am	12:00pm	Traditional Presentation	virtual-live (Zoom session)
On-Demand (Pre-recorded) Sessions							
Action Research for Environmental Justice in the Kindergarten Classroom	Youth-led direct action mobilizations challenge the idea that young people have no interest in politics and global affairs. Teaching for environmental justice must go beyond school gardens, recycling, and green assemblies. We need to put the learning directly in our students' hands and give them real opportunities to be researchers in their schools and communities.	Kimi Walle, NAAEE CEE Change Fellow	October 12-October 15	24-hour access		Bright Spot	on-demand (recorded)

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Action to Combat Climate Change in High School	In this presentation, we describe the process and impacts of employing student centered learning models in a climate change education program for high school girls (10th & 11th graders) in Shahiyar (Andishah) city, in Iran. The process of design, implementation and major outcomes of the program will be presented.	Zahra Golshani, UJUC	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Adventures in Aquaculture – Providing a Sustainable Food System	Come join us as we explore Adventures in Aquaculture, an exciting program aimed at exposing youth to cutting edge research in sustainable food systems, and encouraging an investigation into the college and career opportunities it provides.	Amy Lang, University of MD Extension; Jackie Takacs, University of Maryland Extension	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Best Practices for Hiring Informal Environmental Educators	What should be prioritized when hiring informal environmental educators? Teas Catalán speaks to her experience in evaluating the self-efficacy, content knowledge, and level of student engagement elicited by 10 educators in Sanibel, FL. This research is used to inform hiring practices of the organization, and may be used as a proxy for meaningful programming.	Teas Catalán	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Bringing Connection to Nature Online	When the goal is to create connection to nature, online education presents some unique challenges. In this Bright Spot, I will describe some of the methods I have used as a cyber school teacher for an environmental science class and an extracurricular STEM camp.	Aislinn Benfield, Reach Cyber Charter School	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Building Insights Through Observation – Integrating Science and Art in Education	What do you see that makes you say that? A new approach to teaching with data visualizations, Building Insights Through Observation, aims to help middle school teachers improve data literacy with research that seeks to understand how arts-based instructional methods and geospatial data visualization can be successfully applied.	Kathryn Semmens, Nurture Nature Center; Jessica Sickler, J. Sickler Consulting; Hilary Peddicord, Cooperative Institute for Research in Environmental Sciences; Kerri Maxfield, Nurture Nature Center; Rachel Carr, Nurture Nature Center	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Challenging the Traditional Notion of Science Education to Navigate Global Challenges	Using a global learning pedagogical approach to support connectedness between educational purpose, policy and science curriculum purpose, drawing on the internationally agreed framework of the United Nations Sustainable Development Goals to challenge the notion of science education.	Amy Strachan	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Connecting Land & People in Urban Spaces: A Long-term Investment	Long-term collaboration among organizations and agencies is essential for building leadership, capacity, and community connection to urban greenspaces. We describe the organizational ecosystem that has developed over the past decade through our place-based informal education programs in Los Angeles urban parklands and use student voice to represent outcomes.	Stacey Vigallon, Nature Nexus Institute	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Creating Nature Experiences For Participants To Feel Alive	We hear it again and again: “Teach students to love our planet before saving it.” (Sobejvo). Grants in our field encourage us to “Make the student, not the teacher the star.” (Van Matre), inclusive, contemporary tasks are offered here for the age-old conundrum: How best to engage my participants when outside?	Paul Keiba, Calgary Board of Education	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Cultivating Connection with the Sustainability Compass	How can we cultivate connections between students and the complex global issues facing them? Systems Thinking is key. Watch this presentation to learn about The Sustainability Compass- a systems thinking tool that helps connect students with nature on a personal level and inspires change making for a more sustainable world.	Gitanjali Paul, Compass Education	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)
Developing Citizen Science and Becoming Stewards of an Inlet	Learn about how one school designed a multi-year project to document climate change in the mangrove area near one school. Biannually, students will collect and analyze data related to changing coastlines, ecological health, and water quality to create a historical database of the changes occurring in a small part of Hong Kong.	Michelle Rines, International College Hong Kong	October 12– October 15	24-hour access		Bright Spot	on-demand (recorded)

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Educating a New Generation for a Climate-Changed World	My Bright Spot will cover the WellKind Forestry Internship, which provides California high schoolers with life-changing outdoor experiences, college-level academics, and employable skills for environmental careers. It is the daughter program of what was recognized by National Geographic as one of the nation's best free-standing science programs for high schoolers.	Walker Laughlin, WellKind	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Every Drop Counts: A Hands on Water Walk Activity	This Bright Spot will highlight ways to help educators facilitate student understanding of the importance of access to clean water and water conservation in honor of World Water Day or any day that you choose to make a special water appreciation day for your class.	Kristy Nuttall, Wasatch Nature School	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
From Trash to Learning Treasures: Upcycling with Students and Adults	Learn about fun, interactive, and educational activities to engage audiences of all ages in an easy, at-home (or anywhere), pro-environmental behavior: Taking "trash" items and repurposing them into artwork, learning tools, and other useful treasures.	Alexandria Brake, NOAA	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Green Roofs as Outdoor Classrooms: A Case Study	From the ancient Hanging Gardens of Babylon to present-day rooftop farms, green roofs have been built for centuries. Using N.Y.C Public School 41's green roof as a case study, this presentation will explore the environmental and educational benefits of "greening" typically neglected school rooftops.	Vicki Sando, n/a	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Hold the Salt: The Winter Salt Watch Community Science Initiative	Winter Salt Watch is a nationwide community science initiative that provides free chloride test kits across the country with the aim to protect our communities' wildlife and drinking water resources. The Izak Walton League will present tools and resources to collect data and advocate for clean water in your community!	Abby Hileman, Izak Walton League of America; (Session Contact Only) Kira Carney, Izak Walton League of America	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Impact of Online Self-paced ELT PD on Science Education Doctoral Students'	The importance of teacher preparation in Environmental Literacy has been continuously emphasized in the literature. A unique population of currently enrolled doctoral students that are also in-service educators were participants in a self-paced virtual PD. The pre/post assessments were focused on assessing self-efficacy and attitudes towards ELT.	Chelsea McClure, Towson University	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Leveraging Community Partnerships to Enhance STEM Experiences with After-School Composting	We share a story of successful community partnerships that helped to launch an after school STEM program in a rural, mountain community. Middle school youth set up compost bin experiments and monitored them using programmable sensors, learning about soil health and the important ecological role of compost.	Melissa Susan Rummel, University Corporation for Atmospheric Research; Lara Carlson, Emily Snodden-Brenneman, UCAR (University Corporation for Atmospheric Research); John Daniel Ristvey, UCAR	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Listening to Nature in a New Way: Naturally Florida Podcast	"Naturally Florida" is a podcast to teach about Florida's natural areas and the wild things that live here. On-the-go or folksy laundry, "Naturally Florida" makes environmental education readily accessible. We will share lessons learned, successes, and how you can start a podcast of your own!	Shannon Carnevale, UF/IFAS Extension Polk County; Lara Milligan, UF/IFAS Extension Pinellas County	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Local Support of Green Ribbon Designation Through Environmental Education Programs	To support the Green Ribbon schools movement Dream in Green provides information through professional development training and integration of application questions into our established K-12 environmental education program in South Florida. In doing so DIG supports schools in receiving these recognitions and creating a regional movement towards more sustainable districts.	Alexandra Ender, Dream in Green; Barbara Martinez-Guerrero, Dream in Green	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Norm Activation: The Missing Piece in Influencing Pro-Environmental Behavior Change?	Why do pro-environmental behavior change programs and campaigns all too often fall short of our expectations? This study of norm activation sheds new light that can help environmental education programs and behavior change campaigns succeed in changing behavior and provides useful insights for re-framing conservation messages.	Kerrie Littlejohn, UHM	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)

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Outdoor Classroom and Home Connections for Early Childhood Education	Creating a connection between home and the school setting strengthens our sense of community. This center wide project was made possible by teacher's working in collaboration. We made borrow backpacks so children can take their outdoor education home to share with their families.	Heather Bailey, Patagonia	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Published Literature of Community Based Approaches to Decolonizing Environmental Science Education	The work of justice, equity, diversity and inclusion (JEDI) in education for the environment truly builds on community connections that strengthen the work. Based on a recently published a special issue by CLEARING, this presentation will cover key articles in this topic and discuss opportunities to explore these approaches.	Justin Hougham, University of Wisconsin-Extension	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Salmon in the Classroom: Students Investigate Thiamine Deficiency Alongside Researchers	As scientists investigated the cause of Thiamine Deficiency Complex in salmon, a team at UC Davis and NOAA developed an innovative protocol and lesson sequence to support students gathering data during early life stages. Lessons focused on skillbuilding, NGSS connections and exposing students to a variety of STEM/CTE pathways.	Margaret (Peggy) Harle, University of California, Davis Center for Community and Citizen Science	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
The Roles of Participants in Community Conservation	Last year, the Central Wisconsin Environmental Station initiated a new lake conservation program to engage our community. Now, this program is the starting point for a study examining how community conservation program participants view their roles as well as the roles of others.	Paul List, Central Wisconsin Environmental Station; Rebecca L. Franzen, University of Wisconsin-Stevens Point, Wisconsin Center for Environmental Education; Thomas Quinn, University of Wisconsin-Stevens Point; Cathy Scheder, University of Wisconsin Stevens Point	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Through the Lens of an Adolescent: Perception and Use of Urban Green Space	Adolescent mental health is a crisis in the U.S. and aspects of residing in an urban area increase the risk of developing chronic illness. The intervention of green space improves health, yet we still do not understand how adolescents use it, or how they feel when they are in it.	Rachel Lyons, Duquesne University	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Using Education, Science, and Art to CREATE Resilient Communities	How do you CREATE resilient, sustainable communities? The CREATE Resilience project used science, art, and community dialogue to educate about climate and hazards and foster civic engagement. Story-gathering, community tours, youth ambassadors, and discussion forums helped with the co-creation of a vision for community resilience illustrated through public murals.	Kathryn Semmens, Nurture Nature Center; Rachel Carr, Nurture Nature Center; Kerl Maxfield, Nurture Nature Center; Gabriela Francesca Sullivan	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Utilizing Environmental Issues Forums and Investigations to Engage College Students for Sustainable Actions	The session will showcase two college-level environmental education programs. One is from the University of Missouri, USA and the second is from Huzhou University, China. The presenters will discuss how to use educational and deliberative processes – Climate Choices and Environmental Issues Investigation in designing and enhancing college courses.	Christine Jie Li, University of Missouri; Fan Fan, Huzhou University	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Virtual Engagement Tool for Collaboration in Zero-Waste Planning	Learn about a virtual engagement tool used as part of the development of a county Zero Waste Plan. Hear the reasoning behind choosing the tool, how it was built and used, results of the virtual engagement, and takeaways for if you wish to conduct similar engagement with your audiences.	Angie Zibro, Hennepin County, Minnesota	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Windy City Park Rangers: Cooperative Approaches to Outdoor Experiential Learning	WCPR is a free day camp program that emphasizes nature-based education in local city parks in easily accessible locations in order to increase access to engaging and inclusive childcare opportunities for all community members. We will discuss program success, challenges, and potential for replicable strategies for outreach and implementation.	Carlyn Saunders, Kittitas Environmental Education Network (KEEN), Adrienne Pinsonneault	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)
Youth Making Food Systems More Sustainable	Join us to hear how youth are making their local food systems more sustainable. Through this session you will see how a project-based approach was used to guide youth to make community-level changes in their local food system.	(Session Contact Only) Alyssa McConley, Earth Force; Raicha Yurivilca Delgado, Earth Force	October 12–October 15	24-hour access		Bright Spot	on-demand (recorded)

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A Breath of Fresh Air: Ending the Syrup Syndrome	The future of learning, the business of education and resilient, carbon neutral, equitable facilities can integrate COP26 global climate commitments rather a separate topic like pouring syrup on pancakes. This session will integrate a process and approach with case examples and achieve buildings a teaching tool for sustainable living.	Patrick Thibaudeau, JLG Architects; Peter Smerud, Wolf Ridge Environmental Learning Center	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Amplifying Children's Voices Along The Colorado River	The Water Cycle project biked the Colorado River from source to sea to connect communities across the watershed. This project developed standards based hands-on learning activities to help students develop a sense of place, facilitate conversation, and find commonality in our holy-contested ecoregion. Come experience some of our successful activities.	Katherine Trudeau, The Water Cycle	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Building a Multi-Channel Wildlife Education Program in a Virtual World	Wildlife on WiFi, the Pennsylvania Game Commission's virtual learning program, uses websites, social media, virtual lessons, videos and traditional materials to connect Pennsylvanians to their state's wildlife from anywhere. Presenters will discuss creating a virtual teaching environment, review equipment, share filming tips, and provide examples of traditional lessons turned virtual.	Jordan Sanford, Pennsylvania Game Commission; Brant Potner, PGC; Mandy Marconi, Pennsylvania Game Commission; Lori Neely Mitchell, PA Game Commission	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Building Cultural Competency in Conservation Leaders	Conservation and people go hand in hand. Everyone has a culture. How does culture play into becoming a successful professional in conservation? Cultural competency is necessary to succeed in environmental education. Through a virtual on-demand session, you will learn ways to build cultural competence within your organization.	Holly Hummel, The School for Field Studies	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Creating Community Connection Through Augmented Reality	The Station is an augmented reality game that engages players in quests that encourage them to learn and connect to outdoor spaces. Game content focuses on creating unique and engaging content within a virtual space for a physical place. Come play a quest and learn how to create one for your community.	Susannah Gordon-Messer, Maine Mathematics and Science Alliance (Session Contact Only) Kate Kastelein, Maine Mathematics and Science Alliance	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Solution-Forward Climate Change Education: Fostering Civic Engagement through Poetry	Cross-disciplinary approaches to climate change education can help build emotional resilience and empower civic action. This workshop allows participants to experience and practice using poetry to articulate complex feelings around climate change and to act as a vehicle for elevating new voices.	Eileen Boekstein, Michigan Department of Environment, Great Lakes, and Energy	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Solutions-oriented, Pedagogy-rich Climate and Sustainability Education from MIT	MIT's Environmental Solutions Initiative wants to help educators deepen their climate and sustainability practice – no matter where or what they teach. Learn about two freely-available projects: classroom-ready, NGSS-aligned climate educator guides and an in-depth, pedagogy-focused database of high quality sustainability materials.	Sylvia Scharf, Environmental Solutions Initiative at MIT	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Writing About Wildlife	Effective writing is key to effective communication. In this session, we will focus on short, fun writing activities that can be incorporated into K-12 science classrooms and some nonformal programs. These include Six Word Memors and poetry in the style of Douglas Florian.	Eric Proctor, Arizona Game and Fish Department	October 12–October 15	24-hour access		Hands-on Presentation	on-demand (recorded)
Preparing Individuals from Frontline Communities to be Environmental Leaders	Preparing individuals to become agents of change who can inspire others to become involved in the struggle to create a more socially and economically just and environmentally responsible economy and society.	Raquel Pinderfughes, Roots of Success; Emiliano Amato, UC Berkeley; Abigail Hope Brown, Cornell University	October 12–October 15	24-hour access		Symposium	on-demand (recorded)
A Framework for Climate Adaptation Education: the National Strategy	Developed to guide environmental managers, the eight goals of the National Fish, Wildlife, and Plants Climate Adaptation Strategy also provide a useful learning framework for teaching about climate adaptation. Still relatively unknown, the Strategy is an important climate change education resource.	Marc LaFebre, Association of Fish & Wildlife Agencies/ Project WILD	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)

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A Shared History: Collaborating with Indigenous Communities on EE for All	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 work underway in Oregon to collaborate with Indigenous leaders and educators on curriculum that honors tribal history and knowledge in the state.	Rocco Saracina, Sustainable Forestry Initiative, Yasmeen Hossain, Oregon State University	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Art for the Earth: Incorporating Creativity into 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 utilizes art in various forms—poetry, illustrations, and storytelling—to understand and communicate about the challenges and potential solutions of climate change.	Gabrielle Santiago, FAU Pine Jog, Annie Henderson, Pine Jog Environmental Education Center	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Art-Based Perceptual Ecology: Alternative Inquiry Protocols Suitable For Widespread Adaptation	Citizen Artist, a field-based participatory science research platform offers alternative methodologies grounded in multimodal knowledge systems and sensory-based modalities to investigate critical environmental issues with different objectives. Art-Based Perceptual Ecology research methodologies, developed at Citizen Artist, engage broad audiences, underrepresented populations, offering opportunities for all to get involved in science.	Lee Ann Woolery, Citizen Artist	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Case Study of Supportive Physical Environment for Effectiveness in a Nature Preschool	Nature Preschool sets itself to align with a restorative environment that supports cognitive, competence, and social-emotional development. This case study investigates how teachers' goals in a nature preschool align with the Supportive Environment for Effectiveness framework (previously known as Reasonable Person Model) originally coined by Kaplan and Kaplan (2003)	Lilian Priscilla, University of Missouri; Laura Cole, University of Missouri; Rebecca Mott, University of Missouri	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Changing The World, One Battery At A Time	Around 15 billion batteries are thrown away each year globally. Most end up in landfills, where they pollute, cause fires, and contribute to global warming. I'm trying to change this through my non-profit organization - Recycle My Battery. We recycle batteries and educate people about the impact of batteries on our environment.	Sri Nihal Tammana, Recycle My Battery	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Child-Friendly Engagement: Transforming Parks and School Grounds	Paula Gallo and Annie Vandenberg of Recreate Place will share their participatory approach to creating connected, climate resilient school grounds and parks. We will share our arts-based, experiential approaches that will equip you to work with children to bring meaningful change to communities, deepen relationships and build a connection to place.	Paula Gallo, Recreate Place	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Citizen Science Catalyzing an Appetite for Youth Environmental Activism	Citizen science using drones, AI and Naturalist sounds cool, but can it impact how students feel, think and act towards the natural environment? To help close the environmental value-action gap, I share research results of student and teacher perspectives about environmental citizen science experiences and citizenship action.	Smit Safaiya, University of York, UK / CitizenScience.Asia	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Classroom + Community: University of Louisville Students Serve as "Air Justice" Change Agents	"Air Justice," a project of the Environmental Health Literacy Coalition, features an environmental justice resource website dedicated to fostering civic engagement around air pollution. The website originated in Univ. of Louisville classrooms and remains student authored because the Coalition believes that students are extensions of the community and should be empowered as local change agents.	Shavonne Carthens, University of Louisville; Megan Poole, University of Louisville	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Climate Action Now: an App to Foster Climate Action	Climate Action Now is an app available for free for iPhone and Android designed to promote engagement in climate action and learning about climate change. Learn about how to use the app in your EE programs.	Marianne Krasny, Cornell University	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)

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Connecting Kids with Nature Through Art and Community	Our educational craft kits and workshops for grades K-6 help inspire curiosity about environmental science through art-integrated learning and purposeful play. Join us as we share some of the ways we integrate this powerful and engaging educational tool into our community - and hopefully you will too!	Lindsay Dean, IDEA Collective, LLC	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Connecting Teachers and Park Rangers For More Than Field Trips	Schools in Parks connects elementary teachers and North Carolina park rangers in collaboration throughout the school year to increase equitable student access to the outdoors. Learn how strengthening peer relationships between formal and informal educators can revolutionize professional development, create lasting collaborations and foster meaningful connections to nature for students.	Sarah Yellon, UNC Institute for the Environment; Mary Elizabeth Meyer, UNC Chapel Hill; Sean Higgins, north carolina state parks; Randy Bechtel, NC State Parks; Jennifer brownford, NC State Parks	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Cultivating Meaningful Partnerships For Equity: A Case Study	Learn how to level up your partnerships to authentically connect your whole communities with nature! Using ELSO's consulting services as a case study, we will consider how community partnerships can be cultivated with an eye for impact through intentional collaborations that equitably share resources, knowledge, and expertise.	Erin Cathcart, ELSO, Inc.; Sriyavasa Brown, ELSO, Inc.	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Educating Teachers to Use Project-Based Learning for Sustainability and Altruism	This presentation will showcase the potential for using an online course to educate teachers about using project-based learning for sustainability and altruism. The course consists of units on the UN's Sustainable Development Goals, project-based learning, and social-emotional learning. Teachers will incorporate a project-based learning unit in classrooms around the world.	Monica Blaisdell, Drexel University; Michael Haslip, Drexel; Amanda Clark; Sinead Meehan, Drexel University	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Education & Conservation, Training the Next Wave Through Collaborations	Dream in Green and its partners will provide examples of how environmental and conservation education are integrated into the standard science curriculum through unique local and national partnerships with scientists and resource managers. Collaboration focuses on project-based learning for PreK-12 grade students in formal and informal settings.	Alexandra Ender, Dream in Green; Heather Tedlow, Miami Dade County Parks Recreation and Open Spaces; Daniel Padilla Ochoa, Ocean Conservancy; Barbara Martinez-Guerrero, Dream in Green	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
ESD Journeys in Teacher Education in the Caribbean	Within the Caribbean region, the reorientation of teacher education towards sustainability is a priority in order to support the pathway towards sustainability. Drawing on research findings from teacher educators and teachers, this presentation explores some of the challenges in the institutionalisation of ESD and offers imperatives for pre- and in-service teacher education and ESD.	Therese Ferguson, The University of the West Indies; Lorna Down	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Evaluation Research to Enhance School Teachers' Self-Efficacy in Teaching Climate Change	Climate change is an urgent issue that heavily relies on educational systems to raise people's climate literacy and action. However, there are few training programs targeting at school-teachers' self-efficacy in teaching it. This presentation will show the evidences of how a program effectively increased school-teachers' self-efficacy based on Bandura's theory.	Yu-Chi Tseng, National Taichung University of Education	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Federal and State Collaboration to Advance Green Schools	Learn about the federal role in green schools from state leaders participating in the U.S. Department of Education Green Ribbon Schools recognition award and the U.S. Department of Education's Special Advisor for School Infrastructure and Sustainability. Learn how your state may participate and your school may apply.	Andrea Falken, U.S. Department of Education; Leali Moylan, Missouri Environmental Education Association; Michelle Lewis, Louisiana Department of Education; Tamara E Pfeffer, PA Department of Education	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Forests 2 Faucets 2 You!	Come learn how to use the Forest Service's Forests to Faucets 2.0 Assessment (https://bit.ly/2zsbrymp) with students to visualize the role of forests in supplying your community's clean drinking water. Participants will receive links to activities as well as case studies of how others have used this tool.	Rebecca Lija, USDA Forest Service; Susan Cox, USDA Forest Service	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)

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Gaia (Earth) Education Philosophy - A Journey Back to the Future	We present our world-first Gaia (Earth) Education Philosophy – using Earth to inspire education from biomimicry-based building & environmental design, to nature based curriculum design, to teaching & learning methods, to a visualisation of outcomes. We present a new forest preschool that is shaping the next generation into the future that we are all hoping for.	Darius Singh, Chrysaia Group	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Gaps in the Galápagos: The Missing Narrative on Environmental Education	As a UNESCO Natural World Heritage Site, the Galápagos Islands receive tremendous attention from the international community, especially in regards to conservation of local flora and fauna. However, little attention or research is focused on the presence of environmental education for residents, especially for youth living in the Galápagos.	Amelia Farber, University of Oxford	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Green Pathways: Forging Careers in Natural Resources	How can we raise youth awareness about the variety of opportunities to build an environmental career? Ask young people! Explore 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	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
If You Focus on Health and Well-Being, EE Follows Naturally	The School District of University City earned the 2022 U.S. Department of Education Green Ribbon School Award due to their focus on students' joy and well-being. Their Superintendent will share the multiple strategies that led to this success, from embracing trauma-informed practices throughout the district to an outdoor STEAM lab at every school.	Sharonica Hardin-Bartley, School District of University City; Lesli Moylan, Missouri Environmental Education Association	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Improving Climate Awareness through Restorative Practices and Place-Based Education	During the pandemic, a case study was conducted to determine if combining restorative practices and place-based education could improve learner awareness of local climate change. The participants, who were considered "at-risk youth," not only had an increased awareness of climate, but also felt empowered and hopeful of the climate's future.	Ariel Johnson, n/a	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Incorporating Cooperative Group Structures into Your EE Curriculum	Learn how to incorporate Kagan cooperative grouping structures into your curriculum. Your students will benefit from these research-supported strategies that are easy to implement and flexible enough to meet your needs. Connections to environmental education for formal and informal settings will be provided.	Nicholas Bourke, Auburn University at Montgomery; Tami Shelley, Auburn University at Montgomery	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Learning from Nature: STEAM Investigations for the Classroom	Explore open-access NGSS designed units with inexpensive materials and learn how you can challenge and inspire your students with technologies inspired by nature.	Alyson VanAlphen, Weddington Middle School	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
NUCCEI - Setting a Precedent for Implementing Large-Scale Climate Change Education	New Jersey was the first state to adopt inter-disciplinary climate change learning standards. The New Jersey Climate Change Education Initiative (NUCCEI) formed to expedite implementation across grade levels and subjects. See our online database of climate change education materials and learn our methods as universally applicable to scale environmental education initiatives nationwide.	Margaret Wang, SubjectToClimate; Lauren Madden, The College of New Jersey; Julia Turner, SubjectToClimate	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Ocean School - Ocean Literacy For All	Ocean School is a free innovative ocean education resource, developed by the Ocean Frontier Institute and the National Film Board of Canada. Explore ocean literacy and conservation education through a case study of our 'Harvest' collection, created in collaboration with the Heiltsuk First Nation and discover our immersive multimedia lessons.	Ocean School	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Outdoor Preschool Policy Briefing	Outdoor preschools continue to expand in the United States, and NAAEE's Natural Start Alliance is working to promote policies that encourage public access to outdoor, nature-based early childhood education. We'll provide an overview of current efforts across the US to make this approach to education accessible to all families.	Christy Merrick, NAAEE; Kit Harrington	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)

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Outdoor Science Programs' Impact on Science Dispositions and Environmental Literacy	This study uses 462 youth surveys from across the US to show that outdoor science programs positively influence youths' science and environmental dispositions, with particularly large effects for youth of color. We then discuss the implications of these findings for future research and program design.	aujannee young, University of California Berkeley; melissa collins, Lawrence Hall of Science, University of California, Berkeley; Valeria Fike Romero, Lawrence Hall of Science, University of California Berkeley; Jemma Foreman, Lawrence Hall of Science, Craig Strang, Lawrence Hall of Science	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Partnering K-12 Teachers and University Scientists to Improve Environmental Education	This study examines the impact of connecting university researchers with local K-12 teachers to improve access to water quality and environmental education within the context of school campuses. Findings suggest participation in the project increased teachers' self-efficacy and researchers' ability to translate their work to broader audiences.	Molly Naton, Florida Gulf Coast University; Lilli Ganstrom, FGCU; Serge Thomas, FGCU; Chad A Evers, Florida Gulf Coast University	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Perceptions of Middle School Students on Humans' Relationship with Nature	We should save children from being victims of tomorrow due to consequences of human actions on nature. As an initial step, this study aimed to investigate how young people perceive human-nature relationships with newly developed qualitative tool. Thus, findings can provide insights for practitioners regarding understanding youth's connections to nature.	Ceren BASER KANBAK, Middle East Technical University; (Session Contact Only) Elvan Sahin	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Pivoting During A Pandemic: Lessons Learned And Shared	In the blink of an eye, the pandemic shut down our Grade 6 outdoor environmental education overnight program. We spent the following weeks learning to pivot and continue to engage students. We will share best practices, lessons learned and provide key takeaways to help you whether virtual or in person.	Antonio Camillo, Montgomery County Public Schools; Courtney Hebert, MCPS Smith Center; Brian Shilling, Montgomery County Public Schools; mark granger, Montgomery County Public Schools; Stephanie Lee, MCPS	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Positive outcomes from a pivot to virtual environmental education during the pandemic	Discover how the robust K-12 environmental education program created by the Lee County Mosquito Education team were adapted to maintain instructional continuity throughout the pandemic. Learn more about the activities, presentations and labs that were developed as a springboard into virtual education which resulted in a record program reach.	Andrea Miller, Lee County Mosquito and Hyacinth Control District; Mark McCreary, Lee County Mosquito Control/School District of Lee County; Amy Lucas, Lee County Mosquito Control; Ian Sharp, Lee County Mosquito Control	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Possibility Through Partnerships: Transforming School Campuses for Outdoor Learning	Mutually beneficial, intimate community partnerships between traditional public school systems and their local network of non-formal education organizations can be highly effective in establishing systemic, equitable, school-based environmental education programs. Presenters will share how one school district established an integrated partner network for achieving environmental literacy through outdoor learning.	Todd Klawinski, Caesar Rodney School District; Steve C. Kerlin, Stroud Water Research Center; Tara Muenz, Stroud Water Research Center	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Powerful Multi-stakeholder Role Play Simulation For Protecting Tropical Forests	Interdisciplinary role play simulation where teams of players inhabit personal roles in a contentious tropical forest land dispute in a fictitious South American nation. Stakeholders include displaced farmers, indigenous tribes, local officials, a US bank, conservationists and media. Participants must negotiate a solution among strongly opposing viewpoints. Grades 9 - College.	Thomas Pliske, Florida International Univ.; Martha Keys, Something in Common	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Problems With Environmental / Health Communications To Science-Resistant Religious Communities	A series of maps demonstrates the difficulty of communicating critical environmental/science/health-based information to what I am calling science-resistant religious communities. My research interrogates the question of who is seen as an authority in these communities, and the problems that can result when religious and secular scientific authorities come into conflict.	Richard Kool, Royal Roads University	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Program development to promote environmental civic actions	How can we encourage environmental civic actions among youths in communities where civic action is unpopular? Our research team discussed this issue in collaboration with school teachers and attempted to design an educational program to promote environmental civic actions based on three survey results.	Tomoko Mori, Kokushikan University,	October 12-October 15	24-hour access		Traditional Presentation	on-demand (recorded)

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Program in a Park	This presentation will focus on creating and implementing an outdoor program in an urban environment using a public space. We will use our program as a model. Spark's outdoor program is a play-based, emergent, child-led program that takes place in Horner Park—a public park in the heart of Chicago.	Stacy Niemiec, Spark Montleson	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Promoting Positive Youth Development Through 4-H STEM and EE with Black Youth	Connect with 4-H and learn about a program focused on engaging black middle school youth living in housing in STEM and EE projects. The presentation will discuss the highlights, brief overview of the sessions, lessons learned and plans for further engagement.	Sarah West Davis, UFIFAS Extension Sarasota County	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Proyecto Raíces: Co-creation and Comunidad	Join an Education Park Ranger from the Santa Monica Mountains National Recreation Area and explore their experience with co-creation while working with Latinx students and families from Los Angeles. Starting from an idea on an application form to deliverables made up of nature videos, listen in on this journey.	Adali Olivares, Santa Monica Mountains National Recreation Area	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Queering Environmental Education Through Nonbinary Thought and Practice	Queer culture and thought are often thought of as separate from the sciences. However, using queerness as a lens through which to view both nature and educational practices can strengthen our connection with the world around us and enhance how we engage with learners of all ages.	Alex Levine, Conservancy SW Florida	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Reflections from a Culturally Responsive and Equitable Evaluation	This presentation will examine the process and lessons learned of evaluators, collaborating with program implementers and researchers, to center racial equity. We discuss our approach to applying culturally responsive and equitable evaluation (CREE) principles when engaging participants in the design of evaluation tools and frameworks, data gathering, and collective meaning-making.	Michael Arnold, Informing Change; Inti Chomsky, Informing Change; Ajuanee Young, University of California Berkeley; Jeddah Foreman, Lawrence Hall of Science; Craig Strang, Lawrence Hall of Science; Shivani Chanillo, Justice Outside; (Session Content Only) Kelly Conrads, Lawrence Hall of Science, UC Berkeley	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Regional Centers: A Collaborative Approach for Curricula Facilitation	As a result of the population and geographic divides in Nebraska, almost all EE PD was conducted in one region prior to 2020. With the advent of a regional centers model, capacity and reach of EE PD programs has doubled EE PD in Nebraska and now better serves underserved populations.	Jack Linden Higer, Nebraska Forest Service	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Research and Relationship—Spiritual Development, Naturalistic Play, Nature, and Resiliency	Together, spiritual development and nature diminishes stress, anxiety, and depression for all people, ages, and cultures. Come learn about research and how to use nature, naturalistic play, and wonder to strengthen your own spiritual development and sense of place, self, and community via the lens of a public rock garden.	Deborah L. Schein, Growing Wonder	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Research-Based Approaches to Fostering Different Types of Youth Environmental Behaviors	We often work to create behavior change in our audiences, but are we using evidence-based methods to push for the specific types of behaviors we wish to foster? This session will discuss what predicts high school student engagement in different types of pro-environmental behaviors, from individual behaviors to civic engagement.	Lauren Gibson, North Carolina State University; Kathryn Stevenson, NC State University	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Seeds in Space! The Next Generation of Moon Trees	Learn about the next generation of Moon Trees flown as special payload aboard NASA's Artemis I Rocket. Explore newly developed Moon Trees classroom content tied to STEM and citizen science, and discover how to apply for a Moon Tree in your community.	Tinelle Bustam, USDA; Heidi McAllister, US Forest Service; Rachel Bayer, Forest Service	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Sense of Place, Colonial Racial Capitalism, and Outdoor & Environmental Education	What are the intersections between sense of place, colonial racial capitalism, and outdoor and environmental education? In this session, participants will build and/or hone cutting-edge approaches to teaching about place as a means to advance justice, equity, diversity, inclusion, and accessibility in O&EE.	Cecil Goodman, Prescott College	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)

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Sky School: Exploring the Ecology of Sky Islands with Youth	For more than 10 years, UA's Sky School has provided youth with rich learning experiences in the unique ecology of Arizona's Sky Islands. This presentation will discuss our challenges, successes, insights and plans for the future.	Rob McGehee, University of Arizona	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Student Research Success Stories: Lessons from YLACES Grantees	This presentation will highlight the role of Youth Learning as Citizen Environmental Scientists (YLACES) in facilitating student research and therefore, advancing scientific thinking among youth from a range of ages and experience in diverse communities. Three grantees will be featured to examine how they engaged students in scientific research under a variety of conditions and constraints.	Dixon Butler, Youth Learning as Citizen Environmental Scientists	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
SYSTEM READY: Transforming a Teaching and Learning Graduate Certificate	An old STEM Teaching Graduate Certificate at the University of Cincinnati has seen declining enrollment, a symptom of dated programming. This session describes its turnaround into the SYSTEM READY Professional Educators program, incorporating sustainability, systems thinking, and community-based education into STEM disciplines to attract informal educators along with in-service teachers.	Andrew Bernier, University of Cincinnati	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Teaching Complex Topics Within Sustainability Education – The Call For Transformative Pedagogies	Many educators require support to use the transformative teaching strategies necessary to effectively address complex sustainability issues such as climate change. In this interactive (yet taped) session, you will acquire and practice active learning strategies and critical thinking protocols to support students in challenging their own assumptions, values and practices.	Karen Acton, OISE, University of Toronto	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
The Effects of Environmental Education on Children's Connectedness to Nature	Come learn about how research is paving the way to determine how formal and non-formal environmental education impacts students' feelings of connectedness to nature. This cutting edge inquiry explores the impact that emotional connection, developed during an environmental education experience, has on elementary and middle school age students' environmentally responsible behavior.	Dylan Burgevin, Towson University, Sarah Haines, Towson University	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
The Environmental Mandala Project - Connecting Students to Their Ecosystems	In many of our students' rush of activity, they spend little time looking at the world around them. They often can't identify local bird species or locate local streams. This session will present an innovative project that uses student choice and art to allow students to slow down and independently explore their local environments.	Desiree Kay Dimauro, FCP&S/Virginia Tech	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
The Pathway to Stewardship and Kinship	How do we raise engaged stewards of the environment? It takes a village. We'll share a unique approach that involves community groups, our university and college working together to give stewardship and nature based experiences throughout every age and stage of a child's development.	Jacob Rodenburg, Camp Kawartha	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Transforming a Rural School District with Place Based Learning	Since 2013 the Port Townsend School District in Washington State has been on a journey to implement Place-Based Learning across the school district from preK to 12th grade. Learn how the district used focused professional development and built strong community partners to create a strong district wide program for all students.	Sarah Rubenstein, Port Townsend School District	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Trash Talk: How Educators Motivated Students to Keep Waterways Clean	When you imagine litter, do you picture motivated students leading community action to keep waterways clean? Educators at the San Antonio River Authority developed and tested motivational strategies to inspire youth into action. Join us for an enlightening dive into these strategies and leave with new tools in your toolbox.	Janine Garcia, San Antonio River Authority	October 12–October 15	24-hour access		Traditional Presentation	on-demand (recorded)

2022 Conference Preliminary Schedule: Virtual Sessions

Title	Summary	Participants	Date	Start Time Mountain Standard Time	End Time Mountain Standard Time	Session Format	Delivery Method
<p><i>Arizona does not observe Daylight Saving Time. All session times are indicated in Mountain Standard Time; Mountain Standard Time is equivalent to Pacific Daylight Time.</i></p> <p><i>This is a preliminary schedule; sessions, times, and presenters are subject to change.</i></p> <p><i>The final schedule will be available through the conference platform when it launches in October.</i></p> <p><i>The platform includes the opportunity to add sessions to your calendar.</i></p>							
Tree-Plenish: Building Sustainable Communities with the Power of Youth	Tree-Plenish creates more sustainable schools through student-led tree planting events in the community, which offset their paper usage and replenish the environment. Committed to advancing environmental justice, students of all backgrounds have access to these events regardless of income or race, providing leadership potential for students nationwide.	Sethu Gdayappan	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Using Micro Changes to Break Down Barriers to Environmental Education	Micro changes are research-based methods of practice used to create larger change from the bottom up. When practitioners in the field act as change agents and break down barriers to environmental education, a paradigm shift occurs. Subsequently, environmental education programs can thrive, and students are able to (re)connect with nature.	Kimberly Vigil, Murray State University	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Utilizing Environmental Education Living Laboratory Materials on Students' Understanding of Climate Change	The purpose of this study is to ascertain how instructional materials (living laboratory materials) affects secondary school students' knowledge and attitudes about climate change. As a result, four (4) research questions and two (2) hypotheses were posed to help the researchers attain the study's goals.	Norris Igbinoosa Erhabor, University of Benin, Nigeria	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Waste Education in the Caribbean context - the joys, pains and the lessons	In the 1980s, a popular nationwide campaign helped develop an ethos of civic responsibility toward maintaining a clean environment. Since the programme's demise, there has not been a single national campaign to replace it. Join us as to how our transformative strategies are working to increase engagement and participation in Trinidad and Tobago.	Sian Cuffy-Young, Siel Environmental Services Ltd	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
WeatherBlur - Transforming Student Inquiry into Community Action through Computational Thinking	WeatherBlur is an online citizen science platform that links schools in the Gulf of Maine with schools in the Gulf of Mexico to study community based environmental issues. This session will explore how educators in WeatherBlur use computational thinking to transform student questions into meaningful and impactful, community action projects.	Ian Collins, Maine Math and Science Alliance, Rebecca Clark, Uchemma, Maine Mathematics and Science Alliance	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
When "Formals" and "Nonformals" Collaborate for a Change: A Network Model	Environmental education is provided to schools in different ways and by different actors. Creating a successful network that will support the equitable, high-quality distribution of EE is challenging. In this session, we will present a model for a nonformal and formal education regional network developed based on observations and surveys over four years.	Naama Sadan, University of California Berkeley; Andra Yeghoin, San Mateo County Office of Education	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Why Don't They Care? Strategies for Successful Climate Change Communications	Talking about climate change can be challenging and difficult, leaving us feeling frustrated and hopeless. Learn how environmental psychology can help inform real world applications and techniques, using the Climate Change Communication Strategy developed by the West Michigan Environmental Action Council, while also aligning with justice, equity and inclusion values.	Ericka Popovich, West Michigan Environmental Action Council (WMEAC)	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
With, Not For, Youth: "Standup4Nature" Global Youth Advocacy Training	"Advocacy is a means to empower the marginalized and powerless," reflected Monika, 22. Standup4Nature became more than just an online training but a gateway. 200 youth from across the planet started a 2-week virtual journey toward empowerment. Afterwards, youth led national advocacy trainings and biodiversity action projects.	Nathan Spees, WWF Austria; Oliviah Tawarar, Global Youth Action Team	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)
Youth Building Resilience: The RISE Challenge	The RISE Challenge represents an innovative approach to preparing youth to play an active role in building resilience in their local communities. Through this multi-state initiative, educators and youth work together along with local stakeholders to take action to make their community more resilient against natural hazards.	Alyssa McConkey, Earth Force; Raicha Yunvilca Delgado, Earth Force; Taylor Ruffin, Earth Force	October 12– October 15	24-hour access		Traditional Presentation	on-demand (recorded)