



Register at:
bit.ly/2021eec

7TH ANNUAL ENVIRONMENTAL EDUCATION SYMPOSIUM WORKSHOP SESSIONS

Thursday, February 25th



Justice in our Environmental Education Work - This session will guide participants in reflective conversations about how to better bring environmental justice into our work in authentic and meaningful ways.

Presenter: EEC Equity & Justice Workgroup This workgroup is made up of volunteers who work in both formal and nonformal environmental education in San Bernardino and Riverside Counties.

Friday, February 26th



Scientific Sketching (Recorded Session) - Scientific observation and questioning come alive through sketching in this session. Learn some simple techniques to build confidence and skill in even the most reluctant of artists.

Presenter: Linda Braatz-Brown serves as a consultant and thought partner for Action Driven Inquiry. She has over 33 years of service in public education, retiring from the San Bernardino County Superintendent of Schools as the Science Coordinator serving over 32 school districts. Linda has been deeply involved in the implementation of the Next Generation Science Standards locally, regionally, and throughout the state

Saturday, February 27th



Teaching Environmental Justice - Learn and exchange practices for teaching environmental justice, by participating in a sample lesson from the Coastal Commission's free EJ unit. Through hands-on experience, participants can develop strategies and practices for teaching environmental justice to high school students. Opportunity to provide feedback and exchange ideas for mindful and inclusive student engagement.

Presenters: Rebekkah (Bekkah) Scharf is the program assistant for the California Coastal Commission's Public Education Program. She has worked in garden-based education and volunteer management in Santa Cruz, San Francisco, and Philadelphia. She studied Agro-ecology and Sustainable Food Systems at UC Santa Cruz.

Annie Kohut Frankel is the Grants and Education Programs Coordinator for the California Coastal Commission. Before joining the Commission in 2001, she worked in environmental education and community programs in creeks and watersheds, urban forests, and botanical gardens. She holds a degree in Environmental Sciences from UC Berkeley.



EE to Support the Sustainable Development Goals - Discover hands-on activities that build knowledge and skills in several core disciplines while familiarizing students with the U.N. Sustainable Development Goals and all of their interconnections. Topics to be covered include the sustainable use of resources, environmental justice, population and climate change. The presenters will share strategies and tools for engaging students in person (formal and nonformal settings) and in the virtual classroom.



Presenters: Monica Cooper is a first grade teacher at Gus Franklin Jr Elementary School in Victorville, CA. She has presented workshops for her district, site, CTA and at professional organizations' conferences. Monica is a current member of the California Teacher's Association (CTA)/Stanford Instructional Leadership Corps (ILC), a California Global Education Project (CGEP) 2020-2021 Northern California Teacher Fellow and a Population Education facilitator. **Laura Short** is an Education Program Associate at Population Connection, where she coordinates workshops in the western part of the United States, arranges presentations for AP Summer Institutes, and facilitates professional development workshop throughout the country. Laura has extensive experience in outdoor and informal education. She was an outdoor education teacher and Assistant Director of Auxiliary Programs at Congressional School in Falls Church, VA and spent 14 years as the Associate Director, Program Coordinator, and an environmental educator at Nature's Classroom in Massachusetts. Laura earned her B.A. in International Relations from Wellesley College.



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Saturday, February 27th (cont.)

Saru

RECYCLING REIMAGINED

Where does this go again? Reimagining Modern-day Recycling - Learn about the recycling crisis in California and how everyday citizens can better aid their cities in moving towards zero waste output via understanding the basic tenets of recycling literacy. In simply recognizing how to properly sort waste at the individual and communal level, we hope to spark an innovative conversation regarding how people can embed this form of sustainable action into their daily lives. Lastly, we aim to contextualize the future of the recycling market by focusing on local innovative efforts to advance smart waste.

Presenters: Semi Cole oversees Government Affairs and Business Development for Saru Recycling, LLC and is a recent graduate of UC Riverside and the Coro Fellowship in Public Affairs. Raised in San Bernardino, CA, Semi's love for sustainability and green-centered innovation came from his time spent as a student leader, working with environmental grassroots organizations like CALPIRG and UCR's Green Campus Action Programming Board. Today, Semi's work focuses on helping shape Saru's approach to regional climate and sustainability policy matters as well as building new business and strategic opportunities.

Jakeb Tivey oversees Finance and Business Operations for Saru Recycling, LLC and attends the University of Redlands as an Economics and Mechanical Engineering student. Jakeb was raised in San Bernardino, CA, and became involved in conservation efforts through his experiences as an Eagle Scout and student liaison to Japan. Today, Jakeb develops financial models in an effort to increase diversion rates by optimizing traditional waste management methods via Saru, an autonomous, solar-powered sorting unit.



Biomimicry: Nature's Superpower - Join The Energy Coalition (TEC) to discover how nature inspires modern technology with Biomimicry: Nature's Superpowers. This workshop takes participants through an interactive virtual scavenger hunt and engineering design challenge. Explore animal and plant adaptations and how these aid in survival. Use these nature-inspired ideas to invent and design a new technology or enhance an existing one. Showcase designs in small collaborative groups to share inspiration from the natural world!

Presenters: Tinuviel Carlson is a Senior Project Coordinator with The Energy Coalition. She supports the Education and Workforce Development initiative and is the Education Specialist for the statewide Environmental STEAM TK-8 education programs across California. She is also responsible for updating and developing curricula, program engagement and enrollment, partnerships development, and planning/facilitating events!

Megan Hollyfield is a San Diego native with a deep appreciation for science and sustainability. Megan's goal at The Energy Coalition is to create awareness of the connection between the environment and science by increasing access to environmental STEAM education opportunities within disadvantaged communities throughout San Diego.



Environmental Justice: Local and Global Perspective - Join us to explore and develop global competence, environmental justice and student agency using a local and global lens in your classroom. We will share enriching K-12 resources to engage and impact the knowledge and skills of all K-12 global learners

Presenters: Monica Cooper is a first grade teacher at Gus Franklin Jr Elementary School in Victorville, CA. She has presented workshops for her district, site, CTA and at professional organizations' conferences. Monica is a current member of the California Teacher's Association (CTA)/Stanford Instructional Leadership Corps (ILC), a California Global Education Project (CGEP) 2020-2021 Northern California Teacher Fellow and a Population Education facilitator.

Emily M. Schell, Ed.D. is Executive Director of the California Global Education Project. She is at the University of San Diego, Jacobs Institute for Innovation in Education, and oversees six regional sites that provide professional learning for K-12 teachers in global education. Schell is a former teacher and principal in San Diego Unified, K-12 History-Social Science Coordinator at San Diego County Office of Education, Liaison to National Geographic Education, and preservice faculty at San Diego State University. She is Co-Chair to the California Environmental Literacy Initiative, a leader for Compassionate San Diego and was recently named HundRED Ambassador and one of GFEL's Top 100 Visionaries in Education.





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Saturday, February 27th (cont.)



action
driven
inquiry



earthwatch

People, Place, Phenomena: Air Quality, health, and Environmental Justice - Air quality is an environmental justice issue that looms large in our region. In this session engage in a learning sequence that explores local data in order to spark questions and actions within a community. By developing questions and designing investigations, learners can turn the data into actionable information. Action can then lead to improving science understanding and environmental conditions in the local community. In this session you will learn about the Southern CA pilot project that connects science, health, engineering, global goals, and social justice.

Presenters: **Mary Borobia Walls** is Director & Founder of Action Driven Inquiry, volunteer Vice Chair for the EEC Board, and Teacher Leader in the Exploratorium community of practice for Antiracist Science Teaching. She has been an educator for more than eighteen years. Find her on twitter @marybwalls.

Mark Chandler is a prominent conservation biologist with over 25 years of experience conducting field research globally and is responsible for oversight of research program development for Earthwatch's Sustainable Cities and Communities Initiative. He received his doctorate from McGill University studying the evolution of host-parasite communities in tropical frog communities. Mark's interests are the development of community science programs that enhance human health and livelihoods as well as the environment.

Sunday, February 28th



Environmental Education Learning Opportunities - Conservation College is a set of 1 hour virtual workshops aimed at increasing environmental awareness among our elementary school families. By attending this workshop, you will gain knowledge in how to host, ideas for funding, contacts to local agencies and ways to promote your own conservation workshops.

Presenters: I'm **Jackie Lacey** and I am the environmental education resource teacher at Kimbark Elementary School, a part of the San Bernardino City Unified School District. I have been teaching for 28 years and have spent the last 11 in my current role. As the KEEP teacher, I teach TK - 6th grades a combination of their NGSS and environmental education in a hands-on approach. We spend time outdoors in the gardens, caring for the classroom pets, recycling and going on fun science-based field trips. What I love most about my job is that I get to introduce my students to science outside, while getting dirty and having fun!



Watercolor Water Cycle - In this session participants will paint along "Bob Ross" style to create a watercolor painting that also acts as a model for our local watershed. The flow of the watercolor paint will follow the flow of water molecules from precipitation to evaporation. Bring your own materials: construction/illustration/thick paper, crayon, watercolor paint, big brush or sponge to paint with, water, salt and permanent marker.

Presenter: Greetings Earthlings! I am **Jackie Gardner**, a middle school science teacher and NGSS specialist at North Mountain Middle School in San Jacinto, California. My passion for exploring the outdoors started when I was young, like most curious kids, but attending Humboldt State University in the Pacific Northwest cemented my deep connection with nature. While pursuing my BA & MA degrees in Education, lessons were often tied to the local environment and I have continued to utilize place-based teaching strategies in my lessons. In 2019 I lead my first workshop at the EEC Symposium and have continued to be involved in SciEd communication ever since.



Engaging Students in Outdoor Education during Distance Learning - Resources and Methods for teachers to get students outside to learn that can be used next week. These work well for either in-person or distance learning. Aimed at Classroom Teachers, but can be used by any environmental educator in helping to develop virtual or hybrid environmental education programs for their students.

Presenter: **Maggie Riley** is the Outdoor Education and Science Specialist for Inyo County Office of Education. She has been an outdoor science educator in many capacities, including residential outdoor science schools, museums, zoos, preserves, and national parks. She is dedicated to getting students outdoors to learn, and firmly believes that the best science classroom has no walls!



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Sunday, February 28th (cont.)



Tour the LandUse Learning Center to Learn about Sustainable Native Habitats, Urban Areas, and Agriculture - Meet a local wildlife biologist, plant ecologist, resource manager, an arborist and an urban farmer through this tour of the LandUse Learning Center. Learn about local land uses and the educational opportunities found in the garden.

Presenters: **Erin Snyder** is a Resource Educator for the Riverside-Corona Resource Conservation District. She has worked with the RCRCD for almost twenty years teaching about natural resources and stewardship. She is a California Naturalist Instructor, Project Learning Tree Coordinator and a NAI Certified Interpreter. Erin helps manage the RCRCD LandUse Learning Center and Demonstration Garden, while also currently focusing on leading a local team for the California Envirothon and assisting with other educational programs. **Diana Ruiz** supervises RCRCD's education and outreach programs. She is accredited in public relations and has worked in natural resources and management for over forty years. She is the conceptual and interpretive designer of the LandUse Learning Center, a demonstration garden of sustainable practices in the three main land uses of SoCal: native habitats, urban areas, and agriculture. Diana is the creator of Fresh and Local, Riverside's local food and agriculture guide, the Environmental Learning Resources Guide for the inland region, and has developed many educational publications, programs, and interpretive signs.



Supporting Student & Family Wellness through Watershed Expeditions Camp - Educators from the Waterwise Community Center will showcase its annual Watershed Expeditions Camp as an example of how environmental education can be used to support student and family wellness by building community and providing resources for getting outdoors. Participants will get a sneak peek into a day of camp and participate in some hands-on activities. The Waterwise Community Center will also share insights about how both formal and non-formal educators can facilitate opportunities for students to engage in local natural phenomena, build community within their classes and/or student groups, and keep students engaged through a multi-session virtual program.

Presenters: **William Mercado** works at the Chino Basin Water Conservation District in his hometown of Montclair. As Community Programs Educator, he loves working with students and volunteers to promote public stewardship of shared water resources. Through his time at CBWCD, he and his team have worked to inform others about the importance of water conservation in the face of a changing climate.

As a Community Programs Educator at Chino Basin Water Conservation District, **Jenna Hoover** is excited to support programs that inspire and empower students to make water conservation second nature. Jenna also serves as her church's Youth Director where she walks with 6th-12th grade students in living out their faith through community transformation and fellowship.

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