

## Saturday AM 1

### Universal Design for Learning

Rebekah Jones

Come learn how to better meet the diverse needs of students and improve your teaching practices. Universal Design for Learning is a research-based framework for creating flexible learning environments that benefit our diverse array of students. This workshop will include activities, discussion, lecture, and collaboration. Bring a lesson plan that you teach often and/or that you would like to improve.

### An iNaturalist Training for Educators

Sarah Angulo, Brook Gamble

Turn your nature observations into a scientific goldmine! This workshop will familiarize educators with the benefits and functionalities of iNaturalist as a technological tool to share in your teaching space. Workshop attendees will be able to understand the potential of the app to meet their educational and/or organizational outreach, engagement, and scientific goals.

### Opportunities in the New Curriculum Framework for Bridging Environmental Literacy from the Classroom to the Outdoors

The State Board of Education recently included environmental literacy as part of the Science, History/Social Science, and Health Frameworks. The California Science Framework addresses California's Next Generation Science Standards (NGSS). Learn how the Environmental Principles and Concepts are included in the frameworks and how you can include these EP&Cs in your outdoor education programs to support environmental literacy and classroom instruction. Laura Powell

### Allyship – A Deeper Dive

Deepak Dathatri

As environmental and outdoor professionals, I believe that we are called to this work as allies of the Earth and its inhabitants. In this workshop, we will be diving deeper into the concept of allyship, a consistent and arduous practice and process where one seeks to better understand and leverage their power and privilege to act in solidarity with groups that have historically experienced injustice. This might be a new concept to you and you want to learn more. You may be familiar with allyship and want to deepen your understanding. You might just want to further develop your allyship skills. You may even be interested in thinking about how your organization might act as an ally. If any of that seems like you, I'd love to have you at this workshop!

### Project Learning Tree to Action!

Sandra Derby

Participants will be immersed in the content, design, and delivery of environment based learning that uses trees and forests as a window on the world, engaging learners in relevant and crucial California issues. For 40 years Project Learning Tree has inspired teachers to change the way their students are learning about the world around them, collaborating with partner organizations and science leaders to shape how this learning can encourage communities to take action, make decisions, and shape a sustainable future.

### Introduction to Nature Journaling

Emilie Lygren

Nature Journaling is a powerful tool for learning in the outdoors. Using a journal connects students with nature, deepens their observations and learning, invites their personal stories and perspectives, and leaves them with a record of their memories at your program. Come participate in easy-to-lead nature journaling activities, learn key strategies to set students up for success, and walk away ready to use journals to enhance lessons and learning!

### Outdoor Ed at Home: Your Wild Backyard

Dana Stangel

We often relegate wildlife to hikes and camping situations, but there is so much wildlife in your own backyard! Learn how to coexist with backyard wildlife without the use of traps or rodenticide so that you can share this information with those you educate.

### Who's at the Beach? A Student Project to Increase Park Accessibility

Annie Kohut Frankel

Through analysis of aerial photos, consider how beach access decisions demonstrate a community's priorities. Then, analyze a California park as preparation for a student-driven project to increase park access. Who visits a park, who doesn't, and why? Resources from the California Coastal Commission's free teacher guide, California Coastal Voices.

### Solar Explorations to Energize & Engage your students

Tor Allen, Jane Mattione

In this workshop, we'll share several fun & engaging activities designed to introduce your students to the prime energy source on Earth, the Sun. Making electricity from sunlight to power motors, fans, radios, music, lights, scribble-bots, and water pumps will energize and engage your students. We'll share how these activities are part of a Renewable Energy Lesson at Pathfinder Ranch. Participants will receive a copy of the Your Solar Home Educational Supplement and links to activity plans.

### Salmon: Learning and Teaching

Phillip Eukel, Casey Stachelski

Come join Petunia and Popcorn for a walk along Westminster Wood's own Dutch Bill Creek, a few salmon related games, and an opportunity to feed some endangered Coho Salmon! Our goal is to provide a quick primer on the history of and research on our endangered Coho Salmon, how we use this location and species to create engaging lessons with students, and foster a discussion on how to shape and create lessons centering around the unique flora and fauna of your own sites. There will be a little something for all in this workshop whether you want to find inspiration for a new lesson plan, move your body, learn more about the salmon life cycle or just hang out and feed some fish!

### Challenge Course

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## Saturday AM 2

### Nat Nuggets for Naturalists on Trail

Ben Jamin Walker, Claire Walker

Learn quick and crazy skills that awaken students to finding a personal connection to nature, as tested by Ben on over 30,000 outdoor school students and various wild animals. Hands-on practice included.

### Group Management: Creating a Culture that Fosters Values

David Rose

In this workshop we will explore the three primary factors that lead to student engagement: Autonomy, Mastery and Relatedness. We will also learn about cultivating values in the student groups you work with. Instruction will be a mix of Lecture, Discussion, Art Project and Corny Jokes. This workshop is

based off of the BEETLES document "Engaging and Managing Students in Outdoor Science". Excellent for rookie and veteran field instructors (and those in between).

#### Unconscious Biases

Laurel Wee

We all have biases, some we are aware of and others lie in our unconscious. Our goal during this training is to learn how to recognize and act on the biases in curriculum, students and how we do debrief. We will learn key terms to help us discuss the subject of unconscious biases and look at behaviors that can be damaging to not only our students, but our staff.

#### Incorporating the NGSS and EPCs in your outdoor lessons (K-7)

Tascha Barnes

We will introduce you to a step by step way to lead your colleagues in incorporating the NGSS and EPCs into your regular lessons. We will focus on increasing environmental literacy and encourage teachers to use vetted resources such as Project WET, EEI and FOSS to supplement their current lessons. We will incorporate a couple of technology applications that engage students and encourage them to express what they have learned with their peers.

#### The ABC's of Scientific Illustration

Jasmine Lin

Why is nature journaling an important tool as an outdoor educator?

This workshop introduces teaching field journaling for 5th grade and above. Participants will begin by practicing basic scientific illustration techniques, and then learn how to lead students in observation and enjoyable nature journaling. In this hands-on workshop, we will practice journaling using plants found onsite at beautiful and diverse Westminster Woods. Please bring journaling supplies if you have them.

#### Each One Teach One Extreme

Jeremy Miller, Zia Miller

Are you ready to take your Professor Hike (aka "Each One Teach One") to the next level? Join us for graduate level ecology concepts, ideas for embedded assessment, new types of learning stations, and sharing your OWN enhancements to this well-loved activity. As we know, it's more than just "fun plant facts".

#### Discovering Your Hidden Storyteller

Frank Helling

Helping participants discover we are all storytellers and hands on telling our own stories.

#### Talking to students about Climate Change

Tom Drake

Using student friendly terminology to introduce Climate Change, we will lay the groundwork to explore ways to explain the difference between climate and weather and the science behind the greenhouse effect. We will create a hands-on student-centered model to best explain sea level rise, graph historical rainfall data, analyze tree rings, and delve into adaptations and solutions to climate change including links to NGSS Standards / California Environmental Principles and Concepts.

#### Thematic Teaching: Weaving it all Together

Kim Laizer

Are your lessons relevant and fun but feeling a bit disjointed? Are you wanting to make your teaching more memorable, meaningful, and transferable for your students? Join us to explore intentions behind, strategies within, and outcomes possible through thematic teaching.

## Fungi Exploration

Korena S David

Fungi are amazing and all around us! Have you ever wondered how to effectively explore them with your students? We will be doing the lesson that the BEETLES Project has developed for teaching students about Fungi. During this hands-on workshop I will also share my tips and tricks for using BEETLES activities with large trail groups (30+).

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## Saturday PM

Telling the most important story; the context for multidisciplinary conservation ecology

Obi Kaufman

Conservation ecology is the study and practice of sustaining living systems given anthropogenic stressors at scale. Artist, author and naturalist Obi Kaufmann will lead an hour long, round table workshop focused on the main tenants of what conservation ecology is and how it is being practically implemented locally, regionally and internationally. The workshop will deliberate what we can do, as educators and communicators, to inspire a greater, popular awareness and engagement in conservation ecology. What we are talking about is telling the story of what and why, both conservation and ecology are so important to understand. How can we best use multiple, media platforms to tell this, most-important of all stories?

American Sign Language for Outdoor Educators

Olivia Longstaff

Have a good time, and learn some Sign! American Sign Language, that is. You will gain some basic knowledge of Deaf Culture, the alphabet, and outdoor-related vocabulary.

Born of Fire, Shaped by Time, and Veiled in Chaparral

John Sanders

This workshop will focus on the uniqueness of Pinnacles National Park as an outdoor classroom. We will explore its geological history, native plant species, and the more than 400 species of native bees that inhabit the park.

Environmental Education Certification Program: Manager Feedback Needed

Estrella Risinger

AEOE and a dedicated group of EE leaders throughout the state have been working over the past few years to design the outline for a certification program for EE professionals. Are you a manager or leader at your institution? The Environmental Education Certification Program (EECP) outline is ready for your review! We will discuss the value of certification and share the basic structure being put forth by the EECP steering committee, including timeline, requirements, and pricing. We believe this program will be of great benefit to practitioners and institutions alike and it will be essential to get your feedback at this crucial planning stage. Come help us make this dream a reality!

Naturalist Tool Box

Bill Thornton

In this workshop, we are going to discover tools we can use to help our students debrief and make understand material during lessons and activities. Participants will learn how to use different objects and tools to help their students achieve deeper reflection and connections. This workshop will be hands on.

#### TREE DREAMS: Combine Science & Story to Foster Environmental Citizenship

Kristin Kaye

This workshop blends science and storytelling to open students' eyes to their relationship with the natural world. Author Kristin Kaye weaves an inspiring tale about the tree tagging movement that leapt from the pages of her award-winning YA novel, *Tree Dreams*, with a tree tagging adventure that has been adapted for the classroom. Attendees will be immersed in recent discoveries in forestry that reveal how the natural world is connected in ways we never dreamed of, delve into themes of interconnection found in literature and social sciences and discover how to integrate these insights in a hands-on lesson plan for K-college using *Tree Dreams: A Field Guide* and tree tagging kits.

#### How Intersectionality of Marginalized Communities Informs and Drives Our Work

Francis Mendoza, Leslie Perra, Rebecca Au

Now that we've had multiple conversations on the importance of DEI (Diversity, Equity and Inclusion) principles in the work that we do, what is the next step? Explore the current landscape of jobs, initiatives and movements within the Environmental Education field. From Network Leadership to BIPOC (Black & Indigenous People of Color) movements, we will discuss how to incorporate Environmental, Social and Restorative Justice into our collective curriculums. ChangeScale is an Environmental Education Collaborative that leverages the resources of its members to enact meaningful, measurable change in the Environmental Education landscape. Through discussion, presentation and hands-on activities, we'll provide you with tools to be a more effective educator and/or administrator, with our most marginalized communities in mind.

#### Consent: As Easy As GORP

Linnea Joy Pierson

Imagine what a culture of consent would look like. Where youth learn to express their boundaries and to respect those of others so that they can interact appropriately throughout their lives. Using games, activities, discussion, and research, this workshop will add tools to your toolbox of how to model consent in your program. GORP included!

#### Spider Exploration

Michelle Peres, Emilie Lygren

Some students might be afraid of spiders, but everyone can get excited and caught up in observing spider webs! Come experience a fun, NGSS aligned BEETLES activity that gets kids observing differences and similarities between spider webs, thinking about how webs work, and identifying spiders by web type. Once students do this activity, they'll start to notice and be curious about spiders and webs everywhere! Throughout the activity, we'll point out strategies and approaches that support equitable and inclusive learning environments, and discuss key tips to promote student management and engagement.

#### Fostering Falcon Friendships: A guide to raptor care

Madison Heller

Ever wondered about how to present raptors to a student audience? How does one care for and tend to an apex predator? In this seminar, you will have the opportunity to lean all about a day in the life of working with a peregrine falcon. Come meet our beautiful bird, Sweetie Pie, and leave having made a new friend!

#### Teaching My Values: "What Do I Believe, And What Does That Mean For What I Teach?"

Andrew Boyd-Goodrich, Kyyio Cecil-Raditz

Consciously or not, we all possess our own educational philosophy, and we teach to our passions, our biases, and outcomes or impacts that mean something to us. Even within the boundaries of your program's curricula and structure, we make individual choices about what children will--and will not--learn, how and why they are learning, and why certain things are more important than others. In this workshop, educators will consider their own educational values, and consider those values in contrast to their home programs, the teachers that they serve, and the students themselves.

## Sunday AM 1

NGSS and Outdoor Science: Activities and Approaches

Emeric Brisbee, Emilie Lygren

How did we get so lucky to end up with science standards that are based around students thinking and figuring things out? The Next Generation Science Standards (NGSS) are a thoughtful and inspiring set of standards that can help make teaching more engaging and student-centered. The NGSS also is especially suited for outdoor learning-- come and see how!

Integrating Knowledge of Autism into Our Work Outdoors

Kira Lucier

Children with autism and other special needs can have transformative and memorable experiences in the outdoors just like everyone else, especially with a little extra understanding. Participants will get an overview of autism, fundamentals of behavior science, and concrete tools we can use to effectively reach more students. Use your real life examples during collaborative opportunities to develop tools for your program.

Staff Training, Growth Mindset, & Staff Culture

Ryan Mayeda

Join me for a discussion on how to create an effective staff training, develop a growth mindset with your staff and create open lines of communication in order to create a particular staff culture. If you're in a leadership position that requires staff supervision, observations, and/or involves facilitating training sessions, then this is the session for you! Bring your questions regarding training, growth mindset, communication, and/or how to develop a staff culture. This will be a round table discussion so everyone can ask questions, but also give each other feedback to increase our collective impact.

Sunday Morning Storytelling

Dean Thompson

Saturday night could go pretty late, and Sunday morning might be a bit rough; will you still be recovering? Did you have too much fun? Do you feel like you just don't want to participate in a team building activities or focus on teaching strategies? Are you gonna want to just sit and be entertained, to laugh, or be emotionally moved?

If so, come to Sunday Morning Stories. Let's hear stories, even better we'd love to hear you come and SHARE a story in a "Moth" styled format. You'll have 5 min to tell a true story that is in any way tied to Teaching Outside the Box at outdoor schools, at home, with family, during your youth or whatever. In between stories we will discuss storytelling's role in education, environmental awareness, and in creating presentations that flow, are entertaining and engaging. Come help and make this time enjoyable.

The Intersection of Science and Art

Sarah Bloom

Come explore the beauty of the forest through visual art! This workshop will focus on activities that will help students foster an appreciation for plants while giving them the opportunity to look at our green friends through the lenses of science and art. We will spend plenty of time drawing while sitting on the ground, so bring your sense of curiosity! Artistic talent not required.

With Great Power Comes Great Responsibility: Influencing the Next Generation of Environmental Stewards

Kat Montgomery

As educators, we have the unique opportunity to influence how students view the world and the responsibility to do so thoughtfully. This workshop will be a round-table discussion about how we can "use our power for good" to encourage students to be better environmental stewards. We will focus on ways to talk to students about human-caused environmental problems (climate change, marine debris, etc.) without getting pessimistic or preachy. Please come prepared to share your ideas and methods if you have them!

Citizen Science & Environmental Education

Jasmine Dingler

Learn about "Citizen Science" (a.k.a. Public Participation in Scientific Research, Crowd-sourced Science, etc.) and how it can be a helpful STEM teaching tool. Jasmine will demonstrate how to find and join existing citizen science projects, and provide helpful tips for starting your own projects. Participants will also learn best practices for engagement, including the legendary "BioBlitz dance".

Climate Change for Environmental Educators

Ali Stefancich

Climate change is the biggest environmental problem facing the world today, but how can we teach it in a way that inspires action? In this interactive workshop you will learn quality resources to find up to date information about climate change and lesson plans that activate learner's environmental science agency. Walk away feeling confident in your ability to teach about this critical subject.

Teaching with Games

Nicole Carbone

Putting an educational spin on kids favorite traditional games is one of my passions. Join me if you would like to learn more games to share with your students or if you have games to share with the group! After the workshop I will share descriptions of all of the games myself and others share (plus other games and resources) via email.

Earth's Systems

Chloe Houle

Attendees of this workshop will walk away with a basic understanding of Earth's 4 main systems and how they interact with each other. They will be equipped with the resources to lead two different hands-on activities. Discussion, hands-on and collaborative learning will take place throughout the workshop.

## Sunday AM 2

Fungal Ecology in Environmental Education

David Salomon

Interested in teaching about mushrooms to young folks and beginners? We'll begin indoors with a lesson in basic fungal ecology, including how to cover the concepts for kids. Then we'll go on a mushroom foray looking at the different major groupings. Observing patterns, and using descriptive language, we'll name our mushrooms, while practicing a skill easily transferred to other areas.

## STEM-ulating Activities on Human Ecology

Anushka Drescher

Discover innovative ways to teach middle school students about human-environmental interactions, while also building STEM skills through problem solving, mathematical modeling, interactive technology and more. Interdisciplinary topics include human population growth, land and ocean use, climate change and biodiversity. Receive electronic lesson plans for use in classrooms and nature centers.

Regions & Resources: Shelter building in prehistoric California, a brief overview of native lifeways  
Bob Pinto

Understanding the prehistoric uses of resources from California's four major regions: Desert, Coast, Mountain, and Valley. Rocks, animals, and plants will be discussed and will be available for participants to create a mini- model structure replica. Group dynamics will be used to encourage discussion and collaboration.

To Fortnite or not to Fortnite? Cultural relevancy and ethics in outdoor education

Kaya Halpern, Jordan Mills

Have you ever kissed a banana slug? Made a joke about Fortnite? This workshop will focus on how we connect to students and ethical/moral questions that come up on trail. We will create a collaborative space to share how we, as facilitators, approach creating boundaries in bringing in popular culture to our teaching. We hope to address common dilemmas of kissing banana slugs, killing macroinvertebrates, holding newts, and other things that we do in the name of environmental education. Let's work together to brainstorm ideas on how to address these situations.

A Visit with John Muir – The Scootcher of a Lifetime

Frank Helling

A living history dramatic performance of John Muir telling of his childhood, his mountaineering adventures, founding of our national parks and the urgent need to care for our planet today.

Participation from every participant: how to engage every student from English Language Learners to shy kids

Nicole Barden

Tired of calling on the same three kids who keep raising their hands? In this workshop we will discuss and share ways to encourage participation from every student by using hand gestures, body movements, pair-sharing, and BEETLES inspired discussion drivers. These techniques can be adapted for any age and group including English Language Learners. Nod wisely if you wish your whole group participated in your lesson.

Supporting Gender Expression

Lee Tempkin, Lisa Zeiler

Our youth are growing up more aware of and accepting of a range of gender definition and expression. Nevertheless, there remain challenges for LGBTQ+ campers and staff to feel accepted and respected for who they are. In this round table discussion, we will share our experiences in creating a safe space for our gender expansive campers and staff and want to hear your challenges and successes in doing the same. We also want to hear your ideas to develop increased empathy and understanding of this issue for other individuals in our communities.

Loose Parts & Process Art: Methods for Integrating Art, Nature, and Inclusive Practices

Sarah Foglesong

Simon Nicholson theorized that the degree of inventiveness and creativity, and the possibility for discovery, in any environment is directly proportional to the variety of loose parts available in it. Learn

how to apply this theory of loose parts to art provocations that can be used indoors and outdoors to develop students' connection to nature, creativity, and critical thinking skills. This workshop will focus on the early childhood years (birth - age 8), though activities will be applicable to educators of all age groups. Participants will engage in hands-on art activities and discussion-based learning.

#### Naturalist Swap Meet

Jeremy Miller

Got something to share? Are you searching for that perfect activity for just the right moment? Are you looking for feedback on a lesson idea that has been brewing in your head? Bring your questions, your notepad, and a five-minute version of a favorite lesson or activity--old or new--to share with colleagues. Let the ideas flow!

#### Ecosystem Modeling for All

Jesse Robinson

Practice a simple ecosystem modeling activity designed for 5th graders in the classroom to support their learning on field trips. The BEETLES tool 'Instructor Support for Leading Meaning-Making Discussions' will be used by the instructor during the activity and by the participants to debrief the activity. NGSS alignment, lesson planning and classroom support for learning in the field will also be discussed.

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