

*~The California Association for Environmental and Outdoor Education~*

## ***2011 Statewide Conference***



**“FUSION: Bringing it all Together”**

***April 29 – May 1, 2011***

***Westminster Woods Outdoor School  
Occidental, CA***

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## CONFERENCE SCHEDULE:

### FRIDAY

5:00-10:00	Registration ( <i>Main Office</i> )
7:00-11:30	Movies ( <i>Homestead Room</i> )
8:00-9:00	Bear Bones Band ( <i>Redwood Grove</i> )
8:00-9:15	Astronomy ( <i>Meet at Dining Hall</i> )
9:00-12:00	Workshop sign-ups ( <i>Dining Hall</i> )
9:00-10:00	Open Mic ( <i>Redwood Grove</i> )
9:00-9:30	Ice Cream Social ( <i>Dining Hall</i> )
9:30-10:45	Night Hike ( <i>meet at Dining Hall</i> )
10:00-?	Late Night Jam ( <i>Redwood Grove</i> )

### SATURDAY

6:30-7:30	Birding with Karen “Kestrel” O’Hearn ( <i>meet at Dining Hall</i> )
7:00-7:45	Yoga ( <i>Woods Inn Deck</i> )
7:00-8:15	Registration ( <i>Main Office</i> )
7:00 <sub>a.m.</sub> -6:45 <sub>p.m.</sub>	Silent Auction ( <i>Homestead</i> )
7:00 <sub>a.m.</sub> -6:45 <sub>p.m.</sub>	Exhibitor Area open ( <i>Dining Hall Patio</i> )
7:30-8:30	Buffet-style <b>Breakfast</b> ( <i>Dining Hall</i> )
8:40-9:20	Opening Ceremony ( <i>Hillside Campfire</i> )
9:30-10:40	<b>WORKSHOP Session 1</b>
10:55-12:05	<b>WORKSHOP Session 2</b>
10:55-11:40	<b>WORKSHOP Session 2a</b>
12:00-1:00	Buffet-style <b>Lunch</b> ( <i>Dining Hall</i> ) (registration open)
1:00-2:15	Keynote: Steve Van Matre - ( <i>Hillside Campfire</i> )
2:35-3:20	<b>WORKSHOP Session 3</b>
3:25-4:35	<b>WORKSHOP Session 4</b>
4:45-5:45	Journal Swap ( <i>Homestead</i> )
4:45-6:00	Recreation ( <i>various</i> )
5:15-6:15	Job Fair ( <i>Homestead</i> )
5:30-6:30	Buffet-style <b>Dinner</b> ( <i>Dining Hall</i> )
6:45	Silent Auction bidding ends ( <i>Homestead</i> )
7:00-9:15	Howard Bell Award presentation, Talent show and Live auction ( <i>Hillside Campfire</i> )
7:30-10:30	Movies ( <i>Woods Inn</i> )
9:15-11:00	Live Band: Belle Monroe & her BrewGlass Boys ( <i>Redwood Grove</i> )

### SUNDAY

6:30-7:30	Birding with Reed Schneider ( <i>meet at Dining Hall</i> )
7:00-7:45	Yoga ( <i>Woods Inn Deck</i> )
7:00-8:30	Buffet-style <b>Breakfast</b> ( <i>Dining Hall</i> )
8:00-8:30	Council Meetings (during breakfast - all are welcome) ( <i>Dining Hall</i> )
8:50-10:00	<b>WORKSHOP Session 5</b>
10:15-11:00	<b>WORKSHOP Session 6</b>
11:20-12:00	Closing Ceremony ( <i>Hillside Campfire</i> )
12:00-1:00	<b>Lunch</b> ( <i>Dining Hall</i> )
1:00	clean-up, pack up, see you in the fall

## INFORMATION:

**Guidelines for Respectful Behavior:** As a professional organization, we expect responsible and respectful behavior from our members. AEOE does not condone the consumption of illegal substances or underage drinking at its events. Anyone who is being disruptive, especially due to the influence of alcohol, will be asked to leave without a refund. We also ask our members, when outside of the few designated “late night” areas, to be very quiet at night when people are sleeping.

**MEALS: You must have your wristband for meal service.** Each of the meals is buffet-style, so come right at the start or wait a few minutes for the lines to die down. Meal choices are provided for AEOE’s vegetarian and omnivorous members based on your registration form choice. Please eat that food choice for the entire weekend. *If an omnivore eats the veggie choice, someone who registered as a veggie may not get enough food.* We will be composting much of our food waste so please follow the posted directions!

**Housing** is included in the basic conference cost. It is dorm-style with a mattress but no bedding provided. Most cabins are about a 3-5 minute walk from the main dining hall area and very close to most parking. Please sign up on the housing sheets so we know where to find you if needed.

**Camping:** The main camping area is near the cabins and about a 3-5 minute walk to the dining hall area. Cooking on site is not allowed. Showers are available at the main camping area. There is ‘festive’ camping closer to the late night entertainment area.

**Quiet Hours** in dorms and camping areas are from 10 p.m. to 7 a.m. If you plan on being festive outside of those hours, we will have designated “festive camping” and “festive cabins.”

**Parking** is limited. Park as close as safely possible to other cars. You are encouraged to double park with a friend as long as it doesn’t block access. To promote carpooling, we are charging a \$5 parking fee per car which will go toward future scholarships. This will be waived if you carpool with at least three people per vehicle and you will be eligible for raffle prizes.

## INFORMATION, ctd.:

**Conference Concierge and First Aid:** An information table and first aid station will be located in front of the dining hall and will be staffed throughout the conference, except during the opening and closing ceremonies and keynote. If you have questions not answered in this conference program, please check with one of the Board Members at the Concierge table.

**Professional Development Credit:** You can earn one unit of professional development credit by attending a total of eight hours of workshops/speakers/presentations and writing a brief summary. Two units are available. Please enroll during registration.

**Conference Evaluations:** Conference and workshop evaluations available online once the conference ends. Please submit evaluations as soon as possible while everything is fresh in your mind. We appreciate all feedback to help us continue to offer quality conferences.

**Volunteering:** AEOE conferences are run entirely by volunteers. We will need volunteers to help with assorted jobs including meal check-in and post-conference clean-up. Please see Casey Passmore during registration to sign-up to volunteer.

**Want to get involved?** Have fun! Build your leadership skills! Join us to get experience in event coordination, meet inspirational people, create skill-building opportunities and make a difference working with a great statewide organization. Join the Northern or Southern AEOE Council for breakfast at 8 a.m. Sunday to find out how to get involved.

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## CONFERENCE EVENTS:

**Job Fair:** *Looking for your next job?* Bring your resume and an inquiring mind for an opportunity to learn about job openings. Program representatives will be available from 5:15 – 6:15 p.m. Saturday to answer questions, hand out and receive applications in Homestead.

**AEOE Merchandise:** Organic Cotton Conference T-shirts, tote bags, and other sustainable AEOE merchandise will be available at registration and during meal times throughout the conference at the Concierge Table. Stop by and get yours while supplies last (cash or check only for AEOE purchases.)

**Exhibitor Area:** The exhibitor area will be open Saturday from 7 a.m. – 7 p.m. on the Dining Hall Patio.

**Auctions:** Help plant Joie's Daisies! Proceeds from the live and silent auctions go to the Joie's Daisies scholarship fund. The live auction will occur between performances during the skit / talent show Saturday night. The silent auction, located at Homestead, begins Saturday 7 a.m. and ends at 6:45 p.m. Pay for and claim items during the live auction Saturday night. Payment is due (check or cash) for both auctions upon receipt of item(s).

**Photo Contest:** Bring up to 3 photos (B/W or color) ready to display! Bring photos to Homestead by noon on Saturday and fill out an entry card for each. Judging will be held at 4:45 p.m. Saturday and prizes will be awarded at the closing ceremony on Sunday. Talk with Carrie Bryant at registration for more information.

**Journal Swap:** Bring 25 copies of your program's journal to the registration area by 1 p.m. Saturday and you'll be able to take a copy of each journal brought by other programs. One person from your program may pick them up at Homestead any time between 4:45 and 5:45 p.m. Saturday.

**History Display:** Please stop by Homestead to take a trip back in time to AEOE's roots. Peruse newsletters, memorabilia, and conference photos. History opens our eyes to the past and shows us where we are today.

**Howard Bell Award:** This annual award will be presented on Saturday prior to the talent show and live auction. The Howard Bell Award recognizes and pays tribute to a leader in the field of environmental and outdoor education for outstanding achievements and contributions.

## SCHEDULE HIGHLIGHTS:

### *Friday Evening:*

**Music:** A whole evening of entertainment will be held in the Redwood Grove. The evening will begin with the Bear Bones band at 8:00. They will be followed with an Open Mic session hosted by Nicole “Guinea Pig” Campbell at 9:00. Beginning at 10:00 there will be a late night jam with Yeti & Sasquatch.

**Astronomy:** Join Jeff “Jellyfish” Olshan at the Dining Hall at 8:00 for an astronomy workshop. After a brief introduction, the group will move to a location better suited for observations of the stars and night sky, so arrive on time if you want to participate.

**Night Hike:** Sam “Oak” Johnson will lead a night hike departing from the Dining Hall at 9:30 p.m. on one of his favorite Westminister Woods trails. Participants are welcome to share their own night hike ideas and activities.

**Movies:** We will be showing 3 movies this weekend, two each night. Friday night they’ll be shown in the Homestead from 7 – 11:30 p.m. We’ll start off with *Earth Building* which will include a discussion and question-and-answer session with filmmaker Miguel Elliott of Living Earth Structures. At 9:00 there will be an intermission for workshop signups and ice cream. At 9:30 we will be showing *Polycultures: Food Where We Live*. Saturday we’ll start with *No Impact Man* and then re-show *Earth Building* for anyone who missed it Friday. See the right column for a synopsis of each of our three films.

## Featured Films:

*Earth Building* demonstrates the many advantages of natural building and celebrates the possibility of incorporating earth building into school curriculum. Some basic instructional information is also included, such as how to identify proper earth for building, building earthen domes, ovens, saunas, and even hot tubs. The film is intended to inspire, educate, and entertain. Running time: 1 hour

*PolyCultures: Food Where We Live* gets its title from the word “polyculture” which describes farm systems that mimic natural systems with diverse and interdependent elements. This is the opposite of monocultures, a one-dimensional farming system that dominates much of the agriculture in the U.S. *PolyCultures* also describes the social movement that has formed around local food systems, including the integration of diverse communities, both rural and urban, across Northeast Ohio, where the documentary is set. *PolyCultures* looks at the many interdependent elements that make up a more diverse, just, healthy and sustainable food system. *PolyCultures* was an official selection of the 2009 Cleveland International Film Festival. Running time: 100 minutes

*No Impact Man:* A guilty liberal finally snaps, swears off plastic, goes organic, becomes a bicycle nut, turns off his power and generally becomes a tree-hugging lunatic who tries to save the polar bears and the rest of the planet from environmental catastrophe while dragging his baby daughter and Prada-wearing, Four Seasons-loving wife along for the ride. And that’s just the beginning. Bill McKibben meets Bill Bryson in this seriously engaging look at one man’s decision to put his money where his mouth is and go off the grid for one year – while still living in New York City – to see if it’s possible to make no net impact on the environment. In other words, no trash, no toxins in the water, no elevators, no subway, no products in packaging, no air-conditioning, no television.... Running time: 93 minutes

**BOOKMARK US – [WWW.AEOE.ORG](http://WWW.AEOE.ORG)  
AND FIND US ON FACEBOOK!**

## SCHEDULE HIGHLIGHTS, ctd. :

### *Saturday:*

**Opening Ceremony:** Join us at the Hillside Campfire at 8:40 a.m. to get the Conference off to a start. We will have announcements and information as well as a little inspiration.

**Keynote: Steve Van Matre** will give the keynote speech entitled “Mapbearers, Toolkeepers, Starmakers” at 1 p.m. at the Hillside Campfire. Professor Van Matre is the Chairman and founder of the Institute for Earth Education. He has presented hundreds of sessions in over 40 states and provinces and his materials represent the most widely used nature education programs in the world. He is a former classroom teacher, camp director, youth leader and educational consultant, currently based at Cedar Cove in West Virginia.

**Skit Contest and Talent Show** on Saturday night. Don't miss this awesome display of AEOE talent, and your chance to support Joie's Daisies Scholarship Fund during the Live Auction. The evening will be emceed by Chris “Yeti” and Jason “Sasquatch” Little. Contact them if you'd like to perform during the festive evening. Live auction hosts are Greg Lewis and Robb “Big Brown Bat” Stolberg.

**Movies:** As an alternative to the talent show program and/or band, we will show movies in Homestead from 7:30 – 10:30 p.m. We will begin with *No Impact Man* followed by *Earth Building* at 9:15. See Friday night listing for film descriptions.

**Music:** Belle Monroe and her Brewglass Boys will help you get your groove on from 9:15-11:00 at Redwood Grove. The band has a great appreciation for bluegrass music but injects it with blues, swing, and a whole lot of fun and energy. They recently released their second album, *Long Lonesome Day*.

### *Sunday:*

**Kayaking Trip:** This will be a special in-conference outing to kayak on the Russian River. The \$40 cost includes all gear and a naturalist-led guided trip. There is a limit of 15 and pre-registration is required. Email John “Buzzard” Oliver at [jcoliver1024@comcast.net](mailto:jcoliver1024@comcast.net). See workshop 501 for full description. We will carpool to the put-in, leaving about 7 a.m. and returning by 11 for the closing ceremony.

**Closing Ceremony:** Join us for a fun wrap-up at the Hillside Campfire Sunday at 11:20 a.m. We will have raffle drawings, thank-yous, and a special visit from John Muir.

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**Thank you to our Conference Committee:** AEOE depends on dedicated volunteers to make these conferences a success. This year, those volunteers include:

**Conference Coordinator** – Jymn “Scooby” Meier; **Conference Registrar** - Helen de la Maza; **Workshop Coordinator** – Robb “Big Brown Bat” Stolberg; **Entertainment** – Pamela Wade, Casey Passmore, and Rachel Loud; **Keynote Liaison** – Jymn “Scooby” Meier; **Volunteer Coordinator** – Casey Passmore; **Housing Coordinator** – Christine Preddy; **Publicity** - Michael Charnofsky and Tom Drake; **T-Shirt Design** – Carly “Sol” Jefferies; **Job Fair Coordinator** – Jeanine “Jumping Mouse” Delano; **Merchandise/Treasurer** – Zayanne Thompson; **Green Conference/Transportation** – Michael Charnofsky; **Scholarships** – Kim Laizer; **Sponsorships** – Robb “Big Brown Bat” Stolberg, Leanna “Moonlight” Tribulato; **Auctioneers** – Greg Lewis, Robb “Big Brown Bat” Stolberg; **Talent Show MCs** – Chris “Yeti” and Jason “Sasquatch” Little; **Photo Contest** – Carrie Bryant; **History Display** – Jymn “Scooby” Meier; **Journal Swap** – Leanna “Moonlight” Tribulato; **Howard Bell Award** – Coleen Ryan; **First Aid** – Libby Wilmot

**SAT. 9:30 – 10:40**

70 minutes

**I01 – 201 Exploring Multiple Intelligences (2 HOUR)**

Jessica Niven-Kohring / CN



**I02 – 202 Hands-on solar tracker circuit design (\$)**

(2 HOUR) Veenu Shekhar / B



**I03 Challenge Hikes: the Why and How**

Meg "Granite" O'Neill / EC



**I04 Edterpretation (Interp/EE Fusion: Bringing it All Together)**

Madeleine Smith / H



**I05 Education & Environment Initiative: Update on CA's New EE Model Curriculum**

Laura Powell / W



**I06 Intro. to Roped Recreational Tree Climbing**

Sam Johnson / BB



**I07 Keeping The Magic Alive**

Steve Van Zandt / CC



**I08 NART: Making Art with Nature**

Bryan Kett / RA



**I09 Nature's Movement: Bringing Culture & Environmentalism Together Through Dance**

Robyn "Deer" Saxer & Ashley "Nightcrawler" Hansen / RG



**I10 Promoting Positive Behavior**

Joanna Vance / GP



**I11 Sunshine in a Box: Cooking with the Sun**

Tor Allen / FI



**I12 The Quest**

Jymn "Scooby" Meier / HC



**I13 Tracking Fun... the Easy Way to Inspire**

Lisa Curnett / CB



**I14 Trash to Crafts**

Amy Erickson / AC



**I15 U.S. Falconers**

rikki Shackelford / F2



**I16 Who Wants to Manage An Outdoor School?**

Justin Canty / WT



**I17 Cabin Leader Forum**

Kathleen Utter / P



**SAT. 10:55 – 12:05**

45 or 70 minutes

\*45 min. workshops (end 11:40)

**201 – see I01 (double session)**

**202 – see I02 (double session)**

**203 Give a Hoot!**

Allison O'Brien / N



**204 Making The Most of Volunteers**

Shannon Cueva / F2



**205 "Supersize it..." I Need the Grease**

Stephen (Hoppy) Hopkins / EC



**206 The World's Only Elephant Seal Puppet Show**

Keith Riley / P



**207 Training the Trainer: Dynamic Professional Development**

Max Myers / GP



**208 Wild About Watersheds**

Carrie Bryant, Samantha Dempster & Annie Yennie / CB



**209 Alpha Beta**

Shangu / D



**210 Bugs of the Underworld**

Todd "Grizzly" Gillihan / RA



**211 Climate Change & Renewable Energy Sources: A Broader Perspective**

Matthias Ruchser / W



**212 Gardener's Heirloom Seed Exchange & Idea Forum**

Cathy Chambers / AC



**213 Getting Students to Care Through Relational Pedagogy**

Mateo Fiori / H



**214 Intro. to Roped Recreational Tree Climbing**

Sam Johnson / BB



**215 Photosynthesis & Photovoltaics: Nature Inspires the Solar Electric Cell**

Tor Allen / FI



**216 Walking the Woods as Poets: Teaching Nature Observation Through Descriptive Writing**

Amelia Rosenman / WT



**217 Writing & Publishing Stories to Use On or Off Trail**

Jacob Sackin / RG



**SAT. 2:35 – 3:20**

45 minutes

**301 – 401 Coastal Bluff Hike (2 HOUR)**

Joshua Van Wallegem / EC



**302 – 402 Earth Education Programs (2 HOUR) (\$)**

Steve Van Matre / HC



**303 – 403 Challenge Course (2 HOUR)**

Craig Veramay / DP



**304 Adventure Race**

Taylor Brigman & Emily Scavarda / RA



**305 Dear Insulin, Are You There?**

Vanessa "Kiskadee" Teater / N



**306 Geologic History Of California**

Kerry Monahan & Reed Schneider / GP



**307 Working with Multicultural Audiences**

Lily Barajas / H



**308 It's Raining, It's Sporing!**

Jenna Amberg-Johnson / WT



**309 Plastics, California and the Pacific Gyre**

Alyssa Carlson / B



**310 Predator Prey: It's More Than a Game**

Kim Laizer / F2



**311 Race for the Rocks: A Meroplankton's Journey to the Intertidal Zone**

Jason Blair / FI



**312 Songs, Smiles, and Science**

Matthew Lyles / RG



**313 Tree Frog Treks – Wild Science!**

Svenja Drebes / AC



**STRANDS**

**Admin./Programming**



**Aquatic Science**



**Diversity**



**Instructional Techniques Interdisciplinary**



**Recreation/Teambuilding**



**Science & Sustainability**



**SAT. 3:25 – 4:35**

70 minutes

**401 – see 301 (double session)**  
**402 – see 302 (double session)**  
**403 – see 303 (double session)**

**404 Advanced Outdoor Pedagogy; Fusion of Student & Teacher**

Seth "Lion" Weinberg / AC 

**405 Bringing the Ocean to You; Teaching a Squid Dissection Anywhere!**

Lauren Donnelly-Crocker / GP 

**406 Using Spirit & Strategy to Bring Money to Your Mission**

Timothy Ward / D 

**407 Climate Change 101: Background for Educators**

Tamara Yerkes / B 


**408 Environmental Education for Very Young Children**

Paul Belz / N 

**409 Getting Touchy-Feely with the Sun and Moon**

Chris Milly Milford / WD 

**410 Interactive Songs to Inspire & Educate**

Jeffrey "Whitebear" Domagalski / RA 

**411 Intro. to Roped Recreational Tree Climbing**

Sam Johnson / BB 

**412 Living Humanely In Our World: Connecting Humane & Environmental Education**

Liz Maul / W 

**413 Meteorology for Dummies**

Gregory Lewis / FI 

**414 Moose Nuggets**

Ben Jamin Walker / CN 

**415 Solar Connection: the Science of the Sun and Its Relationship to Earth**

Anna Hurst Schmitt / FI 



**416 Tasty Morsels**

Christine Preddy / CC 


**SUN. 8:50 – 10:00**

70 minutes

**501 - 601 (\$) Kayaking: Russian River Natural History Guided Tour**

John "Buzzard" Oliver / EC (meets 7:00) 


**502 Climate Change 102: Activities for Students**

Derek Ferguson / FI 

**503 Diversity in Outdoor Education: Taste the Rainbow**

Bloom Beloved / B 

**504 Good Luck Going 3 Days Without This! Now Let's Go Play in It!**

Stacey Monahan / CB 

**505 Intro to Eco-phobia**

Coleen Ryan / H 

**506 Storytelling to Enrich Teaching and Life**

Aaron "Red Tail" Clegg / CN 

**507 Talk Birdy to Me!**

Ian "Ibis" Gledhill / GP 


**508 There's an App for THAT?: Effective Use of Technology on Trail**

Robb "Big Brown Bat" Stolberg / RA 

**509 Three E.E. Teaching Resources for Almost Free**

Mike Roa / RG 


**510 Translating Special Education into Outdoor Education**

Allison "Sorrel" Hughes / N 

**511 Using Plants to Heal**

Rachel Edwards / AC 

**512 What You Gonna Do When the Tide Goes Out?**

Casey Passmore / W 

**513 Balancing the Body and Mind: Yoga for Naturalists**

Elaine Blanck / WD 

**SUN. 10:15 – 11:00**

45 minutes

**601 – see 501 (double session)**


**602 Best Practices in English Language Learner Instruction**

Sandi Funke & Eleanor Seelye / WT 


**603 Defeating Waste Paper... for Kids**

Alexander Keilty / AC 

**604 Selling Snake Oil?: "Last Child in the Woods" by Richard Louv**

Mike Vandeman / B 

**605 Sharing Nature Leadership Training: Teaching with Enthusiasm, Wonder & Joy!**

Greg Traymar / CC 


**606 Skull Sleuths**

John Patton / W 



**607 Soak up the Sun!**

Ted "Turkey Vulture" Hunter / FI 

**608 Supervisors' Circle**

Reed Schneider / WD 

**609 Trailside Plate Tectonics**

Nancy Bruce, Anastasia, Andrea, Ariel & Chase / VB 

## LOCATIONS

AC – Arts & Crafts  
B – Boxcar  
BB – Basketball Court  
CB – Carbridge  
CC – Creekside Campfire  
CN – Cargo Net Amphitheater  
D – Dining Hall  
DP – Dining Hall Patio  
EC – Entry Cross  
FI, F2 – Field  
GP – Garden Patio  
H – Homestead  
HC – Hillside Campfire  
N – Nature Center  
P – Pine Room (in DH)  
RA – Rattlesnake Amphitheater  
RG – Redwood Grove  
W – Woods Inn  
WD – Woods Inn Deck  
VB – Volleyball Court

**SAT. 9:30 – 10:40**

70 minutes

### **101 – 201 Exploring Multiple Intelligences**

DOUBLE SESSION

Jessica Niven-Kohring / CN 

(Mountains Recreation & Conservation Authority)

*Remember that day when your program just worked, the students were engaged and you felt like nothing could go wrong? Then the next day the same program fell flat. Chances are it all comes down to these eight words: kinesthetic, linguistic, logical, spatial, musical, interpersonal, intrapersonal, and naturalist. In this workshop, we'll explore ways to create a successful lesson for a variety of ages, backgrounds and learning styles. Working in groups you'll create programs, share successes and challenges, and explore the world of multiple modalities and learning styles.*

I have worked in the field of environmental and outdoor education for the past 10 years and love seeing someone's eyes light up in that "aha" moment. I have my MA in Environmental Education and am currently the Director of Camp Programs for the MRCA. I am also the AEOE Southern Council Secretary.

### **102 – 202 Hands-on solar tracker circuit design**


DOUBLE SESSION / \$35 materials fee 

Veenu Shekhar / B

*We are pleased to offer the nation's first engineering-oriented fully hands-on workshop that covers photovoltaic with emphasis on electrical circuits. In this workshop students build a solar tracker circuit. Program is professionally developed - with prerequisite activity guide, teaching material (150 PowerPoint slides) and quizzes. It is aligned with National and California standards and can be integrated in the classroom or after-hour workshops. We offer train-the-teacher and student training workshops nation-wide.*

Veenu conducts high school teachers' workshops in renewable energy fields across the nation. He understands challenges faced by schools to adopt renewable energy education. Veenu recently worked as independent business development for solar companies in the Indian market. He introduced sophisticated shade analysis technology to panel industry in India. He has spent 16 years in semiconductor industry in Bay Area designing, developing and managing semiconductor product lines. He has Master's degree in Electrical Engineering from Arizona State University with emphasis on solar cells.

### **103 Challenge Hikes: the Why and How**

Meg "Granite" O'Neill / EC 

(Yosemite Institute and Outward Bound)

*Many EE programs have a challenge hike or an all-day hike as a part of their program. This workshop has several aims:*


- 1) Go for a hike and get AEOE participants out, moving, and exploring Westminster Woods' site.*
- 2) Discuss the benefits students experience from pushing themselves physically. Why challenge them?*
- 3) Discuss tips and techniques for facilitating challenging hikes: motivators, hydration, group management*

*4) Brainstorm potential difficulties and solutions for them: blister prevention and care, working with out-of-shape individuals, framing an unfinished hike.*

*Participants should be ready to hike, and ready to share their experiences challenging the limits of their student groups. Please wear appropriate footwear and bring water! We won't need Crazy Creeks for THIS workshop.*

Meg has been a field educator at Yosemite Institute, a campus of NatureBridge, since January of 2008. Her love for helping students push their limits led her to Outward Bound in 2010. She has been an AEOE member since 2006. She enjoys beating people at Boggle and rock climbing in her free time.

### **104 Edterpretation (Interp/EE Fusion: Bringing it All Together)**

Madeleine Smith (Sierra Outdoor School) / H 

*Uncover techniques that provoke and inspire your audience to learn more about the world around them. Whether you have experience in the field of interpretation or not, this is the workshop for you! We will be comparing the art of interpretation and environmental education, fine-tuning our transitions to help the flow, and evolving our introductions and conclusions to effectively reach the participants who go through our program. Join us as we discover the fusion between interpretation and environmental education and bring it all together!*

Madeleine Smith studied Recreation with a focus on EE and Interpretation at CSU, Chico. She's been bouncing around CA and Alaska for the last 3 years doing Interpretation with the USDA Forest Service during her summers and environmental education the rest of the year. She is currently an intern naturalist at Sierra Outdoor School. When not working, she likes to camp, hike, snowboard, and go on outdoor adventures, especially nearby Yosemite National Park.

#### **WORKSHOP STRANDS**



**Administrative/Programming**



**Aquatic Science**



**Diversity**



**Instructional Techniques**



**Interdisciplinary**



**Recreation/Teambuilding**



**Science & Sustainability**

**SAT. 9:30 – 10:40, ctd.**

70 minutes

**105 Education and Environment Initiative: Update on CA's New EE Model Curriculum** 

Laura Powell (Bay Area CREEC) / W

Learn about the CREEC Network web-based tools to get connected to Environmental Education (EE) in California. Come learn about CA's newly adopted Education and Environment Initiative (EEI) Model Curriculum. Eighty-five K-12 units have been approved and are available on-line for teachers to use in their classrooms. Become familiar with the new Environmental Principles and Concepts and Learning Objectives that are aligned to CA State Standards in science and social studies. Learn how to support the EEI Learning Objectives in your program. Some of the Model Curriculum will be available for viewing.

Laura is Bay Area CREEC Coordinator (California Regional EE Community Network) and Educational Consultant and has 19 years of experience in education, first as a secondary teacher and now as an EE consultant. She has a Secondary Teaching Credential and a Masters in Curriculum, Teaching, and Learning with an emphasis in Environmental Education. Laura has 7 years experience teaching secondary school and has served as the Bay Area CREEC Coordinator since its inception in 1997, developing a network to link educators to EE resources in 7 counties in the Bay Area.

**106 Intro. to Roped Recreational Tree Climbing** 

Sam Johnson / BB


(Out on a Limb Tree Climbing / Westminster Woods) Come play in the trees! Learn about the emerging discipline of roped recreational tree climbing. We'll model a facilitated program - letting you climb a tree! We'll also have a short discussion of how tree climbing could be incorporated into your program and specific issues with facilitating such a program. Sam "Oak" is a Lead Instructor and Guide for Out on a Limb Tree Climbing, and a naturalist and ropes course facilitator for Westminster Woods Environmental Education Program.

**107 Keeping The Magic Alive** 

Steve Van Zandt (San Mateo Outdoor Education) / CC

From stories of inspiration and magic to teaching ideas that you can use tomorrow, this workshop is designed to renew your love for the art of teaching. We will look at outdoor ed. guiding principles each with hands on examples to explain, planning a flow using "Into, Through and Beyond," ways to infuse a theme, "Framing," "Kinesthetic Focusers" and an understanding of the classics. Join Steve Van Zandt, Principal of San Mateo Outdoor Ed. (& member of the Banana Slug String Band) for a thought-provoking active session. Handouts Provided. (This workshop includes past workshops but always with new ideas)

Steve Van Zandt is Site Director of San Mateo Outdoor Education and singer-songwriter in the Banana Slug String Band. He has been a K-7 classroom teacher and a naturalist. He's been an outdoor ed workshop presenter for over 30 years. He enjoys surfing, river rafting and vegan cooking. He has three children, 21-year old twins and a 23-year old.

**108 NART: Making Art With Nature** 

Bryan Kett (San Joaquin Outdoor Education) / RA

Do you like nature? How about art? In this workshop we will observe the natural world near us, then use some of our surroundings to make beautiful masterpieces. We'll start with awareness activities, followed by a discussion about working with natural materials as a medium. We'll then spend some time creating our own artwork, and finish with an art show!

Bryan Kett, aka Bullfrog, is in his second year as an outdoor educator. He likes exploring, playing disc golf, baking cookies, and dinosaurs.

**109 Nature's Movement: Bringing Culture Environmentalism Together Through Dance** 

Ashley "Nightcrawler" Hansen and

Robyn "Deer" Saxer (Rancho Alegre Outdoor School) / RG

Don't you wish you could transform the unstoppable wiggling of children from a distraction into a tool for teaching them? In this workshop, we will practice traditional folk dances from Yugoslavia, Bolivia, New Zealand, Hawaii, and Germany. These dances are incorporated into lessons about nature and how people relate culturally to their environment. We will also practice techniques to attune our senses to nature's sounds using whole body movement. And we'll have fun doing it!



Deer and Nightcrawler are Naturalists at The Outdoor School at Rancho Alegre. We are avid dancers and have discovered ways of incorporating this fun activity into effective teaching.

**110 Promoting Positive Behavior**  

Joanna Vance (Pathfinder Ranch) / GP

Do you ever think: I have a different group of students every week, and they REALLY are different! This workshop is designed to help outdoor educators effectively manage groups of students, encourage positive behavior, and promote active participation. Specifically we will discuss different physical, emotional, and linguistic abilities amongst students. Working with different groups every week can be challenging, but with these strategies and our collaborative knowledge we will have a great set of tools to help us empower our students!

Jo was born and raised in sunny Southern CA and has a great appreciation for sandy beaches, palm trees, and surfing! Jo thinks outdoor ed is the best thing since sliced bread and first fell in love with it while teaching students about banana slugs and redwood trees. Jo has spent the last 2 years working at Pathfinder Ranch where she gets to explore the beautiful San Jacinto Mountains with energetic fifth and sixth graders.

**111 Sunshine in a Box: Cooking with the Sun**  

Tor Allen (Solar Schoolhouse [The Rahus Institute]) / FI

Solar cells are blossoming in communities across the land. Learn how Photosynthesis (nature) inspired (man-made) Photovoltaics and how the technology is spreading through neighborhoods around the world. Participants will experience several solar cell activities that can be implemented at your outdoor schools. You'll receive FREE copies of a poster (Photosynthesis vs. Photovoltaics) and Teaching Solar Guidebook.

Tor Allen, Director of Solar Schoolhouse & The Rahus Institute, recently built a solar house in Sebastopol.

**SAT. 9:30 – 10:40, ctd.**

70 minutes

### **I 12 The Quest**



Jymn "Scooby" Meier

(Walden West Outdoor School) / HC

*The Quest is a program I developed in 1990 that strengthens the social aspect of one's field class by weaving self esteem and team building throughout one's lesson plans. Participants will learn how to incorporate the Quest into their daily lessons and hear inspirational stories of its success.*

I have worked in Environmental Education since 1990. I've worked for the Santa Cruz County Outdoor School, Web of Life Field School and Walden West Outdoor School.

### **I 13 Tracking Fun...**



#### **The Easy Way to Inspire**

Lisa Curnett (Camp Campbell) / CB

*"Who Lives Here? Tracking Fun." Have you ever wished you could get kids connected to nature in a deeper way? Seeing animals in the wild is the ultimate way to get them excited about nature, but you can't always count on cooperation from the natural world. Tracking, when done holistically, is a great tool for getting kids to love the earth and be excited about science. Using activities, from sensory to conceptual, we'll explore some basics of tracking and how to teach tracking to kids.*

Lisa has 25+ years in Residential Outdoor Education.

She loves learning, exploring & teaching with kids & adults.

### **I 14 Trash to Crafts: Crafts Made From What's Normally Trash**



Amy Erickson (Inside the Outdoors) / AC

*Learn several different crafts that are eco-friendly and cheap! They are all made from trash. Learn how you can teach about waste diversion by making jewelry, key chains, and rubber stamps.*

Amy is a field naturalist for Inside the Outdoors in Orange County. Trash has become somewhat of a hobby. Her dream job would be giving public tours of local landfills.

### **I 15 U.S. Falconers**



rikki Shackelford (Lawrence Hall of Science) / F2

*This workshop will be about teaching endangered species and I will use my knowledge of the falconry community to talk about the successful reintroductions of several raptor species and the on-going role the falconry community has played in them. I will also give people a chance to see some cool raptors up close and personal and to ask questions about falconry.*

My name is rikki, (with a small r) Shackelford. I'm a native of Pittsburgh, PA - the real Pittsburgh. I was a naturalist in Northern and Southern Cali, Arizona and Hawaii for 20 years before moving on to The Lawrence Hall of Science where I am now the manager of teen program. I am also a licensed falconer in the State of California.

### **I 16 Who Wants to Manage An Outdoor School?**

Justin Canty (Rancho Alegre Outdoor School) / WT



*This discussion forum dissects what it means to move into an administrative role at an outdoor school. Open to naturalists or people interested in becoming a director at a program, as well as current directors that can share their insight. Topics of discussion include transitioning into the role, hiring staff, liability situations, and marketing.*

Justin "Fox Feet" Canty started his work in environmental education as a naturalist intern at Foothill Horizons Outdoor School in 2006. He began work at The Outdoor School at Rancho Alegre in 2007 and has since transitioned from the role of naturalist, to lead naturalist to education director. He has been the Education Director at Rancho Alegre for two years and has gained valuable insight into the many components of running an EE program.

### **I 17 Cabin Leader Forum**



Kathleen Utter (San Mateo Outdoor Education) / P

*This is a forum for Cabin Leader Coordinators and Principals to get together and discuss ways of improving our high school cabin leader programs. We can share ideas on recruitment, training, and challenges that we have. Please be prepared to share ideas!* Kathleen Utter has been at San Mateo Outdoor Education for 8 years, the last 6 as the Senior Naturalist. In California she goes by Sequoia.

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**SAT. 10:55 – 12:05**

45 or 70 minutes

\*45 min. workshops (end 11:40)

**201 (see I01)**

**202 (see I02)**

### **203\* Give a Hoot!**



Allison O'Brien (Sierra Outdoor School) / N

*Come see a live Great Horned Owl! Workshop will include the advantages and logistics of having live animals at your program. Learn new ways to inspire and focus your students with animals.* Allison O'Brien graduated from the Univ. of Wisc. - Stevens Point with a degree in Environmental Education and Interpretation. She worked at an environmental education center in North Carolina and currently works at Sierra Outdoor School, both programs having raptors. In her free time she likes to camp, cook, ski, & play board games.

### **204\* Making The Most of Volunteers**



Shannon Cueva (Shady Creek) / F2

*Do you need extra help at your program? Volunteers can be an incredibly useful part of your staff when they are well managed. At this workshop we will cover strategies for recruiting the right volunteers for your program, and then discuss ideas for making the experience meaningful for all parties involved. Please bring your own experiences and ideas to share with the group.* Shannon Cueva is the Program Coordinator at Shady Creek Outdoor School. She is a Northern California native and loves environmental education with her whole heart.

**SAT. 10:55 – 12:05, ctd.**

45 or 70 minutes

\*45 min. workshops (end 11:40)

**205\* "Supersize it..." I need the grease** 

Stephen (Hoppy) Hopkins / EC

*This is a hands-on demonstration of a practical and realistic alternative to our dependence on fossil fuels. Diesel cars were originally designed to operate on vegetable oil. Learn how you can make the switch.*

**206\* The World's Only Elephant Seal Puppet Show** 

Keith Riley / P

(Pigeon Point Environmental Education Program)

*The World's one and only Elephant Seal Puppet Show! Learn how to teach through puppets. A great indoor option for rainy days or evening activities. Fun for all ages and grade levels.*

Keith works at PPEEP. This is his second year as a Naturalist. Before this he taught at San Mateo Outdoor Education. Keith's nature name is Fisher.

**207\* Training the Trainer: Dynamic Professional Development** 

Max Myers / GP

(YMCA East Bay Outdoor School at Camp Arroyo)

*Create dynamic and effective professional development for your staff! Join a discussion on the how, why, and awesomeness that is running in-services and other professional development pieces. Join the discussion at 'Training the Trainer'.*

Max is Program Coordinator at YMCA East Bay Outdoor School at Camp Arroyo. Max has worked in outdoor education since 2004 in exciting locales such as Northern CA, Southern CA, New York, Ohio, & the Bahamas.

**WORKSHOP LOCATIONS**

AC – Arts & Crafts

B – Boxcar

BB – Basketball Court

CB – Carbridge

CC – Creekside Campfire

CN – Cargo Net Amphitheater

D – Dining Hall

DP – Dining Hall Patio

EC – Entry Cross

FI, F2 – Field

GP – Garden Patio

H – Homestead

HC – Hillside Campfire

N – Nature Center

P – Pine Room (in DH)

RA – Rattlesnake Amphitheater

RG – Redwood Grove

W – Woods Inn

WD – Woods Inn Deck

VB – Volleyball Court

**208\* Wild About Watersheds** 

Carrie Bryant, Samantha Dempster &

Annie Yennie (Santa Ana Watershed Association) / CB

*Welcome to the wild world of watersheds! Come learn a variety of fun and engaging activities to teach about watersheds, the water cycle, and the critters that inhabit a watershed.*

*Participants will receive lesson plans, make a bracelet, and have fun learning about our favorite topic- Watersheds!*

Annie, Samantha & Carrie are the education department of the Santa Ana Watershed Association. We provide free field trips to students in Southern CA and strive to educate as many people as possible about the importance of a healthy watershed. Our diverse experiences include field biology work, directing an outdoor science school, homeschooling kids, and generally making the world a better place.

**209 Alpha Beta** 

Shangu (Pathfinder Ranch) / D

*This activity was created by the Peace Corps to help understand, and avoid, cross-cultural conflict. It includes discussions and role-playing of different cultures.*

Shangu was found under a waterfall, and raised by a pack of wolves. This early childhood experience seems to have a great impact on his life, resulting in an elaborate urge to wander. He has worked in a dozen countries, and visited over forty. He still howls whenever he sleeps in mountain caves or abandoned temples.

**210 Bugs of the Underworld** 

Todd "Grizzly" Gillihan / RA

(Sly Park Environmental Education Center)

*Have you ever picked up a rock in stream and wondered what the heck was crawling around it? Come learn how to identify aquatic insects that inhabit our streams, and find out the reasons why they play such vital roles in our ecosystems. In addition, you will leave with activities you can share with kids to get them excited about the Bugs of the Underworld!*

Todd "Grizzly" teaches at the Sly Park Environmental Education Center located on the West Slope of the Sierra Nevada. He is a self-proclaimed fly fishing junky and he loves rivers and all that lives within.

**211 Climate Change and Renewable Energy Sources - A Broader Perspective** 

Matthias Ruchser (Energetic Consulting) / W

*After giving a brief overview on climate change in general, Matthias will talk about the science and the impacts of climate change. In light of climate change and the nuclear disaster of Fukushima, a further focus of this workshop will be on renewable energy sources and the Desertec project, a European initiative to build large-scale renewable energy sources (mainly wind and Concentrated Solar Power - CSP) in North Africa.*

Matthias Ruchser is a consultant in the energy industry and founder of the Germany-based "Energetic Consulting",

**SAT. 10:55 – 12:05, ctd.**

45 or 70 minutes

\*45 min. workshops (end 11:40)

### **212 Gardener's Heirloom Seed Exchange and Idea Forum**

Cathy Chambers / AC

(Kern Environmental Education Program)

Participants will bring organic heirloom seeds to share with up to 30 other gardeners. Bring a container to display them in, small envelopes, and instructions on cultivating these seeds. Bring at least one kind, but more than one is O.K. Plan on bringing 20 seeds for each of the 30 participants. We'll also discuss gardening problems & solutions. Plan on sharing one great gardening idea with the group.

Cathy has been a naturalist with K.E.E.P. for 12 years, and an avid vegetable gardener for five.

### **213 Getting Students to Care Through Relational Pedagogy**

Mateo Fiori (Yosemite Institute and Outward Bound) / H

"We cannot win this battle to save species and environments without forging an emotional bond between ourselves and nature as well - for we will not fight to save what we do not love"

-S.J. Gould

In this engaging workshop we will be taking a look at what shapes our students' behavior and why the subjective realm (the "experience" in experiential ed) is so important to our teaching. We will delve into some of the research supporting this approach and take a look at some new curriculum developed by the presenter that emphasizes the importance of making a personal connection to the more-than-human world.

Mateo Fiori is an instructor at both the Yosemite Institute and Outward Bound and is currently working on completing his Master's thesis at Prescott College.

### **214 Intro. to Roped Recreational Tree Climbing**

Sam Johnson / BB  
(see 106)

### **215 Photosynthesis & Photovoltaics: Nature inspires the Solar Electric Cell**

Tor Allen (Solar Schoolhouse [The Rahus Institute]) / F1

Sunshine in a Box = 300F! Learn to capture the sun's heat to cook meals & pasteurize water... in a cardboard box. You'll build your own cooker and learn how this simple technology is changing lives worldwide.

Tor Allen, Director of Solar Schoolhouse & The Rahus Institute, cooks with sunshine on a regular basis.

### **216 Walking the Woods as Poets: Teaching Nature Observation through Descriptive Writing**

Amelia Rosenman (San Mateo Outdoor Education) / WT

In this workshop we will practice techniques for teaching close observation and descriptive writing. Walk away with the tools to lead your students through a magical, sensory-rich exploration of

any ecosystem. Wow English teachers with your ability to slip some literary instruction into the heart of your science lessons! Amelia Rosenman is a Naturalist at San Mateo Outdoor Education. She graduated from Brown University with a B.A. in Comparative Literature and has performed nationally as a spoken word poet.

### **217 Writing and Publishing Stories to Use on or off Trail**

Jacob Sackin (Sempervirens Outdoor School) / RG

Every person has a short story or novel inside of them that is worth putting down on paper for others to read. During the workshop we will discuss the writing and publishing process as well as brainstorming story and novel ideas. Please bring either a 1-5 page story, a novel excerpt, an outline or synopsis to share or an idea to brainstorm. Writers of all experience levels are welcome.

Jacob Sackin is the director of Sempervirens Outdoor School and has published two environmental science fiction novels: 'Islands' and 'Iglu.'

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**SAT. 2:35 – 3:20**

45 minutes

### **301 – 401 Coastal Bluff Hike**

Joshua Van Wallegem (Westminster Woods) / EC

DOUBLE SESSION

Come enjoy a leisurely hike along the spectacular Sonoma coastline. This hike will give people the opportunity see spring wildflowers, coastal wildlife, and stunning views of the Russian River mouth. The hike is approx. 2 miles and relatively flat. Please bring hiking shoes, full water bottles, and wear layers as weather can be unpredictable.

Josh is an environmental educator at Westminster Woods outdoor school.

### **302 – 402 Earth Education Programs**

Steve Van Matre (Institute for Earth Education) / HC

DOUBLE SESSION / \$10 fee

Steve will discuss his Earth Education Programs, which are the basis Cedar Cove, the first international living and learning center dedicated exclusively to training educators in building comprehensive instructional programs that will address the root causes of environmental problems.

Professor Van Matre is the Chairman and founder of the Institute for Earth Education. He has presented hundreds of sessions in over 40 states and provinces and his materials represent the most widely used nature education programs in the world. He is a former classroom teacher, camp director, youth leader and educational consultant, currently based at Cedar Cove in West Virginia.

**SAT. 2:35 – 3:20, ctd.**

45 minutes

**303 – 403 Challenge Course** 😊

Craig Veramay (Westminster Woods) / DHP  
DOUBLE SESSION

*This workshop will guide participants through teambuilding challenges and then we'll be putting on harnesses to bring it to a whole new level on the high ropes course. Please wear appropriate clothing and shoes.*

Craig is the Challenge Course Director at Westminster Woods.

**304 Adventure Race** 😊

Taylor Brigman and Emily Scavarda / RA  
(Pathfinder Ranch)

*Adventure Race takes team building exercises and a bit of creativity and creates an exciting way for kids to work together and overcome obstacles. Teams will have to work within themselves and with the other teams to complete the race.*

Taylor Brigman is originally from Racine, WI. He loves coloring books and enjoys getting lost. Emily Scavarda is from Idyllwild, CA. She spends most of her free time climbing and is a colorful kite enthusiast.

**305 Dear Insulin, Are you there?** 🎓

Vanessa "Kiskadee" Teater / N  
(San Mateo Outdoor Education)

*Come and learn about Type 1 Diabetes and how best to work with kids with diabetes when they're at Outdoor Ed. Delve into the physiology of the disease, what it means to carb count, and what the heck all those numbers are about. Learn the lingo and some quick tips for making the experience of a kid successful while they're at your program.*

Vanessa has worked for SMOE for 4 years and is in her 3rd year as medic. She crochets, reads, hikes, solves crossword puzzles and drinks lots of coffee in her free time.

**306 Geologic History Of California** 🔍

Kerry Monahan and Reed Schneider / GP  
(Sierra Outdoor School)

*Ever wonder how the golden state of California was formed? A Geologist and Earth Science Teacher will rock your world as we learn about geology in the state of California. As time allows we will study a collection of hand samples and learn about the characteristics of basic rock types.*

Kerry Monahan studied Earth Science Education at the College of Saint Rose in New York. Along with studying glaciers in Peru, she worked at Space Camp before she found herself at Sierra Outdoor School. When not inspiring students she enjoys hiking, camping, snowboarding, and spending time in the outdoors.

**307 Working with Multicultural Audiences** 🌈💧

Lily Barajas (MERITO Academy) / H

*Multicultural Education for Resource Issues Threatening Oceans (MERITO) has been presenting its Watershed Academy After-school Program to multi-lingual 5-8th graders on California's central coast since 2002. MERITO educators will share some of the techniques, strategies, methodologies and ideologies they use to engage English language learners and multicultural audiences in the sciences.*

Lily Barajas is a site director for Monterey Peninsula Unified School District's After School Academy. She has led her students in the MERITO Academy for 4 years.

**308 It's Raining, It's Spring!** 🔍

Jenna Amberg-Johnson / WT  
(San Mateo Outdoor Education)

*Need rainy day activities? Wish you knew how to teach about fungus ecology to children? This workshop will have both indoor and outdoor activities to teach about the world of fungi.*

Jenna Amberg-Johnson loves living in the Santa Cruz Mountains, being near the beach, and close to great music venues. She likes to adventure and go out for breakfast.

**309 Plastics, California and the Pacific Gyre** 💧🔍

Alyssa Carlson (Walden West Outdoor School) / B

*Have you been wondering what is up about the Pacific gyre? Well, here's your chance to learn more about what is happening out in the middle of the ocean. The presentation will share the harsh reality of the state of the ocean, the latest news from Surfrider and others battling plastic debris in the marine environment, and what actions are being taken to reduce plastic usage around California. We will then spend some time brainstorming ways to incorporate this information into our teaching.*

Alyssa earned a masters degree in international environmental policy from the Monterey Institute of International Studies. She currently works at Walden West Outdoor School.

**WORKSHOP STRANDS**

🎓 **Administrative/Programming**

💧 **Aquatic Science**

🌈 **Diversity**

✎ **Instructional Techniques**

📚 **Interdisciplinary**

😊 **Recreation/Teambuilding**

🔍 **Science & Sustainability**

## SAT. 2:35 – 3:20, ctd.

45 minutes

### 310 Predator Prey: It's more than a game.

Kim Laizer (NatureBridge -Yosemite Institute) / F2  
*It's not about winning or losing; it's about SURVIVING! Are you ready to take your basic predator-prey lesson to the next level? Join Yosemite Institute Mentor Teacher, Kim Laizer, for a high energy, intensely interactive session in which the campus becomes your habitat and other participants your prey. After learning to facilitate and participate in the game, participants will discuss ways to structure the debrief to include issues that link science and sustainability.*

Kim Laizer (formerly Taylor) has worked in the field of outdoor/environmental education for most of her life. She is currently the mentor teacher at Yosemite Institute responsible for recruiting, hiring, training, and coaching the newest educators on staff.

### 311 Race for the Rocks: A Meroplankton's journey to the Intertidal Zone

Jason Blair (Headlands Institute) / F1  
*Race for the Rocks is a new spin on an old classic, Race for the Sun. We will use this hands-on game format to introduce the life cycle of meroplankton and the effects of a more acidic ocean on the intertidal zone. Come ready to run and have fun then debrief the serious threat ocean acidification poses to Earth's oceans. Jason Blair has been an Environmental Educator since 2005 and is happy to present at AEOE. Previous workshops were titled "Demystifying Plants" and "Weather or Not".*

### 312 Songs, Smiles, and Science

Matthew Lyles (San Mateo Outdoor Education) / RG  
*Come learn fun and simple environmental education songs that enhance and facilitate teaching basic ecology. Join a few San Mateo Outdoor Education naturalists as they introduce and perform the songs. Chords and lyrics provided for all songs. Matthew "Hilltop" Lyles has been a Naturalist with SMOE for three years. He loves slow walks, live music, brie, and working on his "Theory of Redwoodtivity."*

### 313 Tree Frog Treks - Wild Science!

Svenja Drebes (Tree Frog Treks)/ AC  
*The Tree Frog Treks workshop is an interactive, fun and educational seminar led by a Tree Frog Treks' Lead Teacher. We'll engage teachers by demonstrating experiments and projects from Tree Frog Treks' curriculum, which focuses on experiential, hands-on science learning. We'll cover a broad range of topics in the life sciences (plants, animals and nature; recycling and decomposition; conservation biology), the physical sciences (simple machines; chemical reactions; states of matter) and earth sciences (geology of the earth; living in a sustainable world) plus many more. In our workshop, teachers can develop projects to suit different curriculum, try out our experiments, and learn hands-on make-and-take classroom projects.*

I am a Lead Teacher at Tree Frog Treks in San Francisco and teach class visits, after-school programs and special events such as kids play nights and birthday parties as well

as outdoor camps for preschool, kindergarten and elementary school kids. As a naturalist, I have more than 7 years of work experience at an educational ranch, botanical gardens and zoos, where I successfully implemented and taught hands-on educational programs with strong social, educational and ecological goals including animal-based pedagogy. I am strongly committed to environmental and nature education to foster interest, excitement and environmental stewardship in K-12 students, youth and adults.

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## SAT. 3:25 – 4:35

70 minutes

401 (see 301)

402 (see 302)

403 (see 303)

### 404 Advanced Outdoor Pedagogy; Fusion of Student and Teacher

Seth "Lion" Weinberg / AC

*This workshop is a college-level lesson in advanced outdoor pedagogy that focuses on using the students as teachers. The workshop will show how to use discovery experiences to frame lessons and excite students about the material and will also show how to involve application of lessons and evaluation of knowledge in an outdoor setting.*

Seth "Lion" Weinberg is the Program Coordinator at the Outdoor School at Rancho Alegre and has worked at the Point Reyes Summer Camp and the Coloma Outdoor Discovery School. Seth loves nature, food and Dungeons and Dragons.

## WORKSHOP LOCATIONS

AC – Arts & Crafts  
B – Boxcar  
BB – Basketball Court  
CB – Carbridge  
CC – Creekside Campfire  
CN – Cargo Net Amphitheater  
D – Dining Hall  
DP – Dining Hall Patio  
EC – Entry Cross  
F1, F2 – Field  
GP – Garden Patio  
H – Homestead  
HC – Hillside Campfire  
N – Nature Center  
P – Pine Room (in DH)  
RA – Rattlesnake Amphitheater  
RG – Redwood Grove  
W – Woods Inn  
WD – Woods Inn Deck  
VB – Volleyball Court

**SAT. 3:25 – 4:35, ctd.**

70 minutes

**405 Bringing the Ocean to You;  
Teaching a Squid Dissection Anywhere!**



Lauren Donnelly-Crocker (Camp SEA Lab) / GP

*There is more to the Market Squid than Calamari! During this workshop you'll learn about Market Squid's anatomy, fishery and adaptations. And you'll walk away knowing how to teach an orderly and interesting large-group squid dissection! We will actually be dissecting squid so be prepared to get your hands a little dirty!*

This is my third Spring Season with Camp SEA Lab as a naturalist and my first season as the Field Coordinator.

**406 Using Spirit and Strategy to  
Bring Money to Your Mission**



Timothy Ward (Vida Verde Nature Education) / D

*Are you afraid to ask for \$ for your amazing program? Do you want to build funding scholarships or for a new mission-driven program but don't know where to begin? Join the Grants Manager from Vida Verde for a discussion on the complex world of non-profit fundraising. Learn how to shift our attitude to let the dollars come pouring in. Gain perspective on the options for fundraising for non-profit and school-based programs. Learn basic strategies for grant writing, asking for donations, and keeping those funds coming in.*

Tim has been Program Director and Grants Manager at Vida Verde for the past 5 years. He has a BA in Environmental Studies/ Economics at UC Santa Cruz. Tim has been an activist for 10 years with a focus on CA forest & farming issues. He has 8 years experience working in EE as a naturalist, wilderness leader, camp nurse, program director, and most recently as grants manager for Vida Verde. Tim is passionate about creating opportunities for under-privileged youth.

**407 Climate Change 101:  
Background for Educators**



Tamara Yerkes (NatureBridge-Yosemite Institute) / B

*What is climate change? What causes it, and what are the effects? This workshop will give you the background knowledge and current data, so you can feel confident teaching this subject, and answering students' questions. For activities to do with students, check out climate change 102 (workshop # 502)!*

Tamara started her outdoor education career at Woodleaf Outdoor School and currently teaching at the Yosemite Institute.

**408 Environmental Education  
for Very Young Children**



Paul Belz / N

*Preschool and young elementary school children grow cognitively, socially, emotionally and physically when they have opportunities to explore natural areas around them. Their experiences help them to love and identify with local animals, plants and ecosystems to become environmentally responsible later in life.*

*This workshop will offer fun, hands-on activities teachers can share in urban, suburban, rural and wilderness areas!*

I have presented science and natural history workshops for preschool and elementary school children for 15 years. I offer environmental education workshops for early childhood educators, and taught a class on the topic at Oakland's Merritt College, Spring 2008. "Childcare Exchange Magazine" has accepted 4 of my articles on Early Childhood Environmental Education.

**409 Getting Touchy-Feely with the Sun & Moon**

Chris (Milly) Milford / WD

(Arcturus Creations & Astrocamp)



*The short version: Make a sundial and keep it; Tell direction without using a compass; Teach kids to demonstrate lunar phases; Create lunar craters. This workshop is the latest in my touchy-feely series of AEOE workshops. Finally, you will see the connection of how life on Earth is tied to both the Sun and Moon. This year's touchy-feely workshop is literally out of this world.*

Senior Instructor at Astrocamp in Idyllwild, CA for 6 years. Palomar Observatory Docent and CEO of Arcturus Creations, I try to bring the joys of learning astronomy and science into the hands of the learner. My Touchy-Feely series in previous years have dealt with hands-on activities in astronomy, geology and paleontology, this year I bring the joy of learning about the Sun and Moon into your hands.

**410 Interactive Songs to Inspire & Educate**

Jeffrey "Whitebear" Domagalski / RA

(Westminster Woods)



*I have been working/playing campfires for 20-plus years and would love to share my approach and passion with you. I will have handouts of my originals and other favorites that are fun, interactive AND educational. I will also share some songs/chants appropriate for the trail. Come & sing along & we will also allow time for others to share the magic of their muse.*

Jeffrey "Whitebear" Domagalski has a BA in Outdoor Education and is a professional Singer/Songwriter with a passion for writing and singing songs of varying genres that connect and inspire.

**WORKSHOP STRANDS**



**Administrative/Programming**



**Aquatic Science**



**Diversity**



**Instructional Techniques**



**Interdisciplinary**



**Recreation/Teambuilding**



**Science & Sustainability**

**SAT. 3:25 – 4:35, ctd.**

70 minutes

### **411 Intro. to Roped Recreational Tree Climbing**




Sam Johnson / BB  
(see 106)

### **412 Living Humanely In Our World: Connecting Humane and Environmental Education**




Liz Maul (Lake Tahoe Humane Society and S.P.C.A.) / W  
Humane education is closely related to environmental education. It focuses on our interactions with people, animals, and the environment - and the effects of our daily choices on others outside our communities. In this workshop, we'll look at the similarities of humane and environmental education, and do several activities that can be adapted to fit into any curriculum. Liz Maul is the Outreach & Education Manager for the Lake Tahoe Humane Society and S.P.C.A. in South Lake Tahoe, CA. She presents educational programs about pets, wildlife, the environment, bullying, and the link between animal abuse and domestic violence to students from preschool - college. She is a Certified Humane Education Specialist, and holds a California Professional Clear Life Science Credential, and a B.A. in Biology.

### **413 Meteorology for Dummies**

Gregory Lewis (Thousand Oaks OSS) / FI   
If you or your program teaches meteorology, or you want to know more about the subject, come on down! We'll have lecture, discussion, and activities. This will help you get a grasp on the science behind it all, and give you the tools to impart your knowledge to your students.

Gregory is a Program Lead for Thousand Pines OSS in Crestline, CA & has a manly beard. He majored in Geography at CSUSB, where he actually took a class in this kind of stuff. In summers he runs a BSA backpacking program in the Sequoia National Forest (anyone want a summer job?).

### **414 Moose Nuggets**

Ben Jamin Walker / CN   
(Green Meadows Outdoor School)

Fire, flash, growls, sticks, strings and stones. Learn and do some of "Moose Chocolattes" proven insane techniques for impacting kids with life-long inspirational memories. Create fire, magic and passion for science. Hand-drill, animal calls, stone knives, dirt, why-do-humans-drink-water, Knot Fu, string theory, and beyond. Real gold nuggets.

Ben Jamin Walker ("Moose Chocolate") has taught at Green Meadows Outdoor School (near and in Yosemite) since 1999 and at over 25 other camps since he was 17. Moose is moving to Victoria, British Columbia this summer, and chills in Costa Rica every winter.

### **415 Solar Connection: the Science of the Sun & Its Relationship to Earth**



Anna Hurst Schmitt / FI

(Astronomical Society of the Pacific)

Understanding the Sun's role in life on Earth and its potential as the ultimate energy source is key to addressing many environmental issues. We will explore these connections, and include tools and knowledge you can apply at your center, including outdoor observations, activities, and demonstrations about our nearest star, as well as the latest research in heliophysics (science of the Sun). You'll get a sneak peek of hands-on activities and demonstrations that will be presented at the national NAAEE conference in Oct. 2011, including viewing the Sun's physical features through solar telescopes, 3D magnetic models of the Sun, experiments with UV-sensitive beads, and outdoor games to illustrate the Sun as the ultimate source of energy. You'll provide valuable input on the development of a Sun-themed toolkit of educational materials & learn how to get a free copy, plus additional online training, upon its 2012 release. Anna develops astronomy materials and workshops for educators and interpreters at museums, parks, and nature / EE centers in all 50 U.S. states through her work at the Astronomical Society of the Pacific (ASP), based in San Francisco. As the lead educator for the ASP's Astronomy from the Ground Up program since 2005, she has developed and presented workshops in museums, science centers, and National Parks together with colleagues from the National Park Service, the National Association for Interpretation, the Association of Science-Technology Centers, and the National Optical Astronomy Observatory.

### **416 Tasty Morsels**

Christine Preddy (Westminster Woods) / CC 

At conferences we glean ideas, picking tasty morsels to reenergize ourselves back in our jobs. This workshop will exam a few common EE activities in the teaching areas of forest, field, waters and conservation practices in order to share some new ideas and variations. Come to this workshop if you want to pick up a few fresh adaptations and activities, brainstorm a new tasty morsel and share some of your own findings from teaching in/about the outdoors. Actual tasty morsels will be served. Christine "Otter" has been teaching about, with and within the outdoors for six years, three at Westminster Woods. She enjoys strolling, friends, making trash into treasures, laughter and probably many things you enjoy as well.

**SUN. 8:50 – 10:00**

70 minutes

**501 – 601 Kayaking: Russian River**    
**Natural History Guided Tour**

John “Buzzard” Oliver / EC

(Walden West Outdoor School)

**(meets 7:00 - Pre-registration required – contact Buzzard at [jcoliver1024@comcast.net](mailto:jcoliver1024@comcast.net))**

We will be meeting early on Sunday to head down to the river for a kayak tour at the mouth of the Russian River in Jenner. We plan to meet at 7:00am, which will give us about 2 hours on the water and return in time for the conference closing. We will be checking out the local birds, as well as a healthy population of harbor seals during their pupping season. Whales off the coast are also a possibility (although we will not be venturing into open water). No experience is required and all equipment, as well as guide services, are provided. The \$40 cost is payable directly to the outfitter. To sign-up, first e-mail the presenter at [jcoliver1024@comcast.net](mailto:jcoliver1024@comcast.net). He will then forward you information on how to sign-up with the outfitter, as well as additional information about the trip.

Buzzard is lead teacher at Walden West Outdoor School.

**502 Climate Change 102:**   
**Activities for Students**

Derek Ferguson (Yosemite Institute) / FI

Want to add climate change to your curriculum? This workshop will give you hands-on climate change activities for students of varying ages. From the science to the solution, these activities will make climate change issues accessible to your students.

Currently a Field Educator at Yosemite Institute, Derek loves exploring, photographing, and connecting students to this amazing planet.

**503 Diversity in Outdoor Education:**   
**Taste the Rainbow**

Bloom Beloved (Camp Campbell) / B

In this workshop, we'll develop tools for helping us to more meaningfully and deeply connect with and serve our students from many different backgrounds. Methods used will include open and honest dialogue in small groups and fun exercises that will help us deepen our understanding of these differences (i.e. a kid who comes from an abusive or underserved or underprivileged socio-economic background). We will utilize real world scenarios to explore effective, expeditious ways to access students' prior knowledge and backgrounds & utilize this information to bridge the gap and facilitate their best outdoor learning experience possible. We'll discuss techniques for assessing, understanding and connecting with students who are not engaging (checking out or acting out).

Bloom is a naturalist teacher at YMCA Camp Campbell.

After life's journey led her down many different trails, she found her passion for teaching children about the outdoors while pursuing her B.A. in Environmental Studies/Education at UC Santa Cruz. Bloom's hobbies include interacting with people, traveling, cooking, developing her natural history

and interpretation skills, watercolors, reading, hiking, and snorkeling in blue Caribbean waters.

**504 Good Luck Going 3 Days**   
**Without This! Now let's go play in it!**

Stacey Monahan (Sierra Outdoor School) / CB

For those of us big kids who still love jumping in puddles and playing in streams, this is the workshop for you. We will explore all the different aquatic relationships in the nearby stream. We will discover all the parts of the aquatic ecology cycle, and identify those charismatic benthic macro invertebrates! And we will use microscopes to identify all the small plankton and micro invertebrates as well! With all the information we collect, we will be able to determine how healthy our aquatic ecosystem is! Stacey has been working with kids for the past 6 years as a camp counselor, substitute teacher, and now as a naturalist. She can't imagine a better job where she gets to play outside all day and teach kids! In her free time she loves to go hiking, read and catch snakes!

**505 Intro to Eco-phobia** 

Coleen Ryan (LA Zoo) / H

Introduction to Eco-phobia: If you have no idea what Eco-phobia is, you should check out this workshop. Students are being exposed to environmental topics that are not always age-appropriate. Like math and art, environmental learning is progressive. Find out how to answer difficult questions and what is and is not ok to discuss in your programming.

Coleen grew up in Western MA. After completing her bachelor degree in History at UMass she spent several years teaching at outdoor schools around CA and in New Hampshire. She is a Curator of Education at the LA Zoo, where she coordinates overnight programs and on-grounds interpretation. Coleen is Secretary of the AEOE Exec Board. She enjoys climbing rocks, having fun with wool and reading a good book.

**506 Storytelling to Enrich**   
**Teaching and Life**

Aaron "Red Tail" Clegg (Walden West) / CN

Stories can persuade, inform, heal, teach, and inspire. In this workshop, you'll learn to enrich a story with sensory detail, voice techniques, symbolism, and sound effects. You'll learn a quick technique for memorizing a story. And each participant will get a chance to tell a story to a partner and receive feedback. Aaron “Red Tail” Clegg is a former physicist and physics teacher and has been a naturalist for five years. He often uses stories and characters to enrich his teaching, and he resonates deeply with the symbolism and healing qualities of stories in books, movies, and plays.

**SUN. 8:50 – 10:00, ctd.**

70 minutes

### **507 Talk Birdy to Me!**



Ian "Ibis" Gledhill (Mendocino Woodlands) / GP

*Often people feel uncomfortable talking birdy. When the time is right nerves take hold and a stimulating moment flitters away. Let Ibis guide you through the sweet sounds that will make you a master of birdy talk. You can learn birdy, you can be birdy, we can get birdy together. Bring your nockers! (Binoculars... duh).* Ian Ibis has been a bird nerd for over ten years. He enjoys shade-grown coffee, long walks on the beach, redwoods, and salamanders.

### **508 There's an app for THAT?:**

#### **Effective Use of Technology on Trail**



Robb "Big Brown Bat" Stolberg / RA

(Walden West Outdoor School)

*I've been using my iPad for the past several months as a teaching tool, making sure that it enhances hands-on experiences rather than replacing them, with rave reviews from students, fellow staff members, and visiting teachers. I'll share some successes and struggles and hope to hear how others use "modern technology" such as smartphones/iPads as teaching tools, even outdoors. I'll also share some of my favorites apps in the vast app sea.*

Robb (a.k.a. Big Brown Bat) has been teaching at Walden West for 12 years and in the EE field for 15. He is a lifetime member of AEOE and is on the planning committee for the 2012 NAAEE (North American Association for Environmental Education) conference, which will be held in Oakland.

### **509 Three E.E. Teaching Resources for Almost Free**



Mike Roa (CA Community Forests Foundation) / RG

*Join us as we explore three new EE resources published by California State Parks: A Guide to the Side of the Sea (2005), Redwood Ed (2007), and The Conifer Connection (2011). These guides provide in one resource, background information on both natural history and human history, activities for before, during, and after a field trip, and suggestions for how to organize a field trip. Learn how to obtain them for free as you experience activities from the guide. Participants will also receive a variety of specimens useful for teaching about forests.*

Mike Roa has been an environmental educator for over 40 years. His students have won numerous environmental awards. He is the author of The Environmental Science Activities Kit, A Guide to the Side of the Sea, Redwood Ed, The Conifer Connection, and other EE resources.

### **510 Translating Special Education into Outdoor Education**



Allison "Sorrel" Hughes / N

(San Joaquin Outdoor Education)

*RSP, SDC, IEP, SST... what do they all mean? This workshop is designed for outdoor educators who are looking to clear up the confusion around special education. We will look at what "special education" means, describing some of the groups of students we get in outdoor ed, experiencing what it might be like to be a student with a learning disability, and having a group discussion about meeting these diverse needs in outdoor programming. Come step out of your comfort zone and become more versed in the acronym-riddled world of special education.*

I'm in my fourth year of outdoor education, serving as Evening Director at San Joaquin Outdoor School. I'm also finishing my first semester of the Cal State TEACH program, earning my multiple subjects credential. I'm finding tons of great applications from my credential program to outdoor ed and can't wait to share what I'm learning!

### **511 Using Plants to Heal**



Rachel Edwards (Rancho Alegre) / AC

*We will be exploring how to use healing plants for our health and well-being. You will learn how to make herbal tinctures and medicinal teas. We will make together a healing salve that each person will get to take home. Recipes and resources will be included.*

### **512 What You Gonna Do When the Tide Goes Out?**



Casey Passmore / W

*Want to join the 10-minute tidepool club or do some tidepool yoga? Brush up on your knowledge of intertidal organisms? Play some anemone tag? Learn about our National Marine Sanctuaries? Come join as we learn some activities while finding out more about the species we see and what to do when the tide goes out!*

Casey leads tidepool tours for all ages at Fitzgerald Marine Reserve in Moss Beach and teaches 7th grade science & math in a San Francisco public school.

### **513 Balancing the Body & Mind: Yoga for Naturalists**



Elaine Blanck / WD

*We will begin with breathing exercises, moving to fuse the breath and movement to warm the body and calm the mind. Then move into strengthening and relaxing the area greatly impacted by our profession. Deep yin-like stretching will conclude before we move into final meditation, Sivasana.*

My name is Elaine Blanck and I have been teaching yoga for 7 years and I have been in the outdoor education field for just as long, if not longer. It constantly amazes me how remarkably yogic our profession is and profundity of yogic perspective on teaching. I am constantly inspired to grow as a practitioner, teacher and student by the daily "fused" practice of yoga and environmental education.

**SUN. 10:15 – 11:00**

45 minutes

## 601 (see 501)

### 602 Best Practices in English Language Learner Instruction



Sandi Funke and Eleanor Seelye / WT  
(Sonoma Ecology Center)

*Do you teach a diverse population of students with varying English abilities? Interested in making your environmental education program or teaching practice more engaging for English language learners? Come learn some of the best practices for effective ELL instruction based on current research and experience from educators at the Sonoma Ecology Center. You will walk away with relevant information about teaching ELLs and techniques you can implement immediately in your own practice or program. This workshop will feature an overview of the best practices from Sonoma Ecology Center's K-12 Watershed Education program, which serves over 25% of all students in Sonoma Valley every year, followed by hands-on activities and discussion. Handouts with techniques, resources, and research articles will be provided.*

Sandi Funke, Education Program Manager: MS Education Curriculum (California State University Hayward), BS Environmental Science (Michigan State University) Ms. Funke has over 15 years experience in EE program design, delivery, evaluation, and management. She has worked as staff and a consultant for organizations such as the California Academy of Sciences, the Golden State EE Consortium, Prusch Farm Park, St. Patrick School, the Yosemite National Institutes, and the Youth Science Institute. She supervises all aspects of the K-12 Watershed Education Program, teaches in the classroom, conducts project evaluation, and advises on interpretive design at the Sonoma Garden Park and the Nathanson Creek Preserve and Trailway.

Eleanor Seelye, Bilingual Educator: MA, International and Multicultural Education (University of San Francisco), BA Spanish & International Studies (University of Oregon). Ms. Seelye's passion for multicultural education infuses her work at the Sonoma Ecology Center. She currently teaches SEC's bilingual elementary science programs, coordinates community education outings, and is Project Manager of Garden Camp, a summer academic enrichment camp designed to increase science achievement. Ms. Seelye is finishing a master's degree in International and Multicultural Education with an emphasis in human rights education from the University of San Francisco. She has spent time studying in Ecuador and Mexico, and traveling throughout Latin America, Europe, Asia, and the South Pacific. Prior to discovering her love of EE, she worked with at-risk teens in Sonoma Valley.

## 603 Defeating Waste Paper... for Kids



Alexander Keilty (Vida Verde) / AC

*We will be making recycled paper with cheap, simple contraptions. Then connecting the craft to a lesson for educators on the costs of recycling and waste. Bring flower petals or other flat earth trinkets to imbed in your paper.*

My name is Alex Keilty and I am instructor at Vida Verde Nature Education in La Honda, Ca. Years of summer camp and outdoor education work have fostered a passion for crafts blended with lessons about natural systems and primitive skills.

## 604 Selling Snake Oil?: Last Child in the Woods, by Richard Louv



Mike Vandeman / B

*We should question the allegations and recommendations of the "No Child Left Indoors" movement. Louv claims that getting children to experience nature will solve many of our problems. It is anthropocentric thinking, and irresponsible, to promote the invasion of wildlife habitat without considering: (1) We want and need to have contact with other species, but neither we nor Louv bother to ask whether they want to have contact with us! In fact, most species of wildlife obviously do not like having humans around, and can thrive only if we leave them alone! Or they are able tolerate our presence, but only within certain limits. (2) We and Louv never ask what type of contact is appropriate! He includes fishing, hunting, building "forts", farming, ranching, and all other manner of recreation. Clearly, not all contact with nature leads to someone becoming an advocate and protector of wildlife. While one kid may see a beautiful area and decide to protect it, what's to stop another from seeing it and thinking of it as a great place to build a house or create a ski resort? Developers and industrialists must come from somewhere, and they no doubt played in the woods with the future environmentalists!*

I have a B.A. and M.A. in mathematics (from Berkeley & Harvard, respectively) and a Ph.D. in Psychology. I research, write, and teach about transportation, wildlife, and the impacts of transportation on wildlife. I have presented papers at a few dozen scientific and environmental conferences, including AEOE.

### WORKSHOP STRANDS



**Administrative/Programming**



**Aquatic Science**



**Diversity**



**Instructional Techniques**



**Interdisciplinary**



**Recreation/Teambuilding**



**Science & Sustainability**

**SUN. 10:15 – 11:00, ctd.**

45 minutes

### **605 Sharing Nature Leadership Training: Teaching with Enthusiasm, Wonder and Joy!**



Greg Traymar (Sharing Nature Foundation) / CC

Based on the world-renowned *Sharing Nature* books with Joseph Cornell, this workshop emphasizes that how we teach, is just as important (if not more important!) as what we teach. Those leaders who teach with enthusiasm, wonder and joy are able to dynamically engage their audience by their contagious example. In addition to hearing stories of those who changed lives by their example, participants will learn *Nature Activities* that have been used around the world for over 30 years and *Flow Learning*, a technique that guides people step by step into more profound nature experiences. You will leave this workshop inspired and renewed.

Greg Traymar, Director of Sharing Nature North America has been personally trained by Joseph Cornell. Greg enrolled at Warren Wilson College in Asheville, North Carolina, where he studied environmental education and outdoor leadership. During his college years, he had many opportunities to work with groups outdoors, through the National Outdoor Leadership School, Outward Bound, and the Smithsonian Environmental Research Center.

"Greg conveys both enthusiasm and a calm reverence for nature. His charisma and respect for others makes him a perfect facilitator for Sharing Nature® programs."

— Mallory McDuff, Ph.D., co-author, Conservation Education and Outreach Techniques

### **606 Skull Sleuths**



John Patton (Sierra Outdoor School) / W

*Skull Sleuths* attending this workshop will learn about many animals' most revealing set of adaptations: their skulls. By discussing and examining various features of the skulls, workshop attendees will learn how to identify behavioral characteristics of animals as well as how to present the information to students. But where will your program get skulls? We will also be discussing how to find/purchase, naturally clean, and prepare skulls for educational programs.

I am a naturalist working at Sierra Outdoor School in the foothills outside of Sonora, CA. Before my naturalist career led me here, I worked as a naturalist throughout northern California, Alaska, Georgia, South Carolina, and North Carolina. I enjoy seemingly unending varieties of outdoor play, playing banjo, and carrying on.

### **607 Soak up the Sun!**



Ted "Turkey Vulture" Hunter / F1

(Whiskeytown Environmental School)

With amazing, new, photosynthesis, get your power from the sun! Purchase one glucose molecule, get six oxygen molecules absolutely free! Act now! Lessons and instructional techniques.

Turkey Vulture Ted is a naturalist at the prestigious Whiskeytown Environmental School.

### **608 Supervisors Circle**



Reed Schneider (Sierra Outdoor School) / WD

Are you a coordinator, director, or site administrator? Do you have questions, concerns, or a wealth knowledge and experience to share with other admins? Then please come to the supervisor circle, meet admins from other sites, and share and discuss issues in this open form workshop.

Reed was a Naturalist in four states before moving to California where he now works as a program coordinator at the Sierra Outdoor School.

### **609 Trailside Plate Tectonics**



Nancy Bruce and interns Anastasia, Andrea, Ariel & Chase (SCICON) / VB

Experience a hands-on inquiry lesson we use with great success at SCICON. Build a landscape in your Geo Frame & create mini-earthquakes demonstrating three types of plate tectonic movement. Observe and describe the effects of plate movement (and erosion) on your landscape. This lesson is adaptable to your outdoor site!

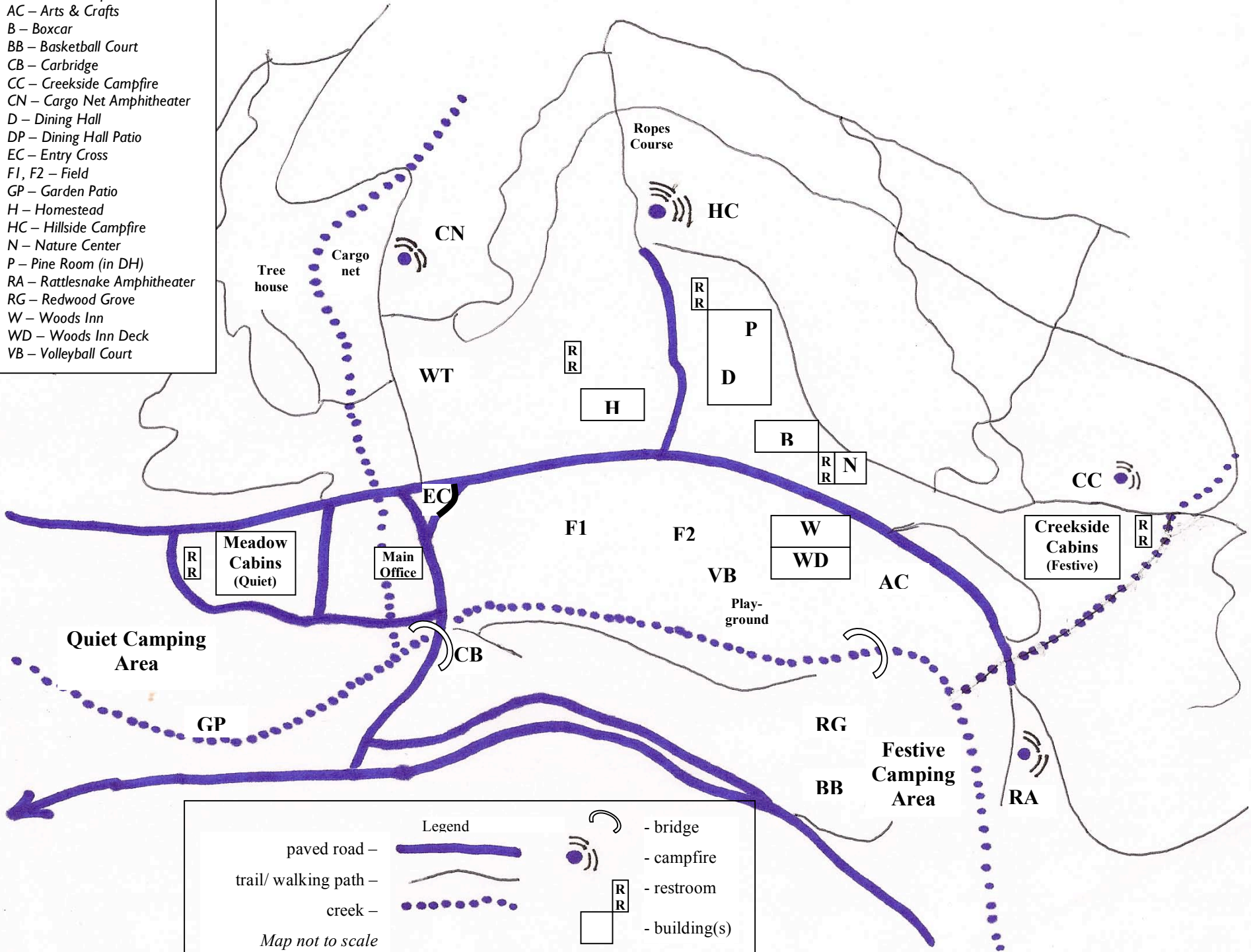
Ariel, Anastasia, Chase & Andrea are part of an incredible team of SCICON Interns who teach and inspire the diverse students of Tulare County. In their spare time they dig for quartz crystals, listen to music and travel to wild places.

## **WORKSHOP LOCATIONS**

AC – Arts & Crafts  
B – Boxcar  
BB – Basketball Court  
CB – Carbridge  
CC – Creekside Campfire  
CN – Cargo Net Amphitheater  
D – Dining Hall  
DP – Dining Hall Patio  
EC – Entry Cross  
F1, F2 – Field  
GP – Garden Patio  
H – Homestead  
HC – Hillside Campfire  
N – Nature Center  
P – Pine Room (in DH)  
RA – Rattlesnake Amphitheater  
RG – Redwood Grove  
W – Woods Inn  
WD – Woods Inn Deck  
VB – Volleyball Court

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Legend	
paved road –	
trail/ walking path –	
creek –	
Map not to scale	
	- bridge
	- campfire
	- restroom
	- building(s)