

# Program of Events

## 2018 Annual Conference

### April 12-15, 2018



The codes that follow each session description indicate which strand the session addresses as follows: LE=Lake Erie and Water Education, SC=STEM and Careers, SG=Strategic Growth, OE=Outdoor Education and Natural History, SE=Sustainability and Energy

**Graduate Credit and Contact Hours are Available!**

#### Thursday, April 12, 2018

**9:00 am – 4:00 pm**

#### Ohio Student Wildlife Research Symposium

Join high school students and teachers from around Ohio as they present their wildlife and habitat research projects in this second annual research symposium for high school students. \$35 for adults, \$25 for students, includes lunch. Please see the agenda online at <http://eeco.wildapricot.org>

#### Friday, April 13, 2018

#### Field Trips

**9:00 am—Noon**

**FT-1—Howard Marsh:** Get a peek at the newest Metropark in Northwest Ohio before it opens to the public. Discover the changing faces of Howard marsh from lumber town complete with shipyard, mill and even a racetrack in the 1860's to a working farm from the 1870's to 2008. Today few other Regions in North America support concentrations of migratory birds like the Lake Erie Coastal zone. Howard Marsh offers wetland, swamp, woodland, and marsh habitat. This wetland restoration combines human ingenuity with the process of nature filtering 1,400 acres of water run-off from nearby communities. \$5.

**1:30 pm—4:30 pm**

**FT-2—National Museum of the Great Lakes:** The National Museum of the Great Lakes tells the incredible story of our Great Lakes through over 300 genuine artifacts, a number of powerful audiovisual displays and 40 hands-on interactive exhibits. The tales told here span hundreds of years, from the fur traders in the 1600s to the Underground Railroad operators in the 1800s, the rum runners in the 1900s, to the sailors on the thousand-footers sailing today. \$15

**9:00 am—Noon**

#### Friday Morning Workshops

#### **W1—Getting Little Feet WET Early Childhood Curriculum**

Project WET released its early childhood curriculum in 2017. The curriculum features 11 activities designed for students in Preschool - Grade 2. Each workshop attendee will receive the curriculum and learn ways to use the activities. *Indoors LE.* Dennis Clement, Ohio Environmental Protection Agency. \$5

#### **W2—Wetland Inquiry through Project Dragonfly's QUEST**

With Inquiry woven into every grade level in Ohio's Learning Standards, teachers are seeking inquiry training. At the same time, naturalists are desperately encouraging children to play in nature. Discover how both these needs can be met by participating in a hands-on inquiry-based workshop, while learning about Miami University's Global Field Program. *Indoors/Outdoors LE, SC, OE.* Joshua York, Lauren Asquith and Elisabeth Barnett, Five Rivers MetroParks \$5

**Noon—1:30 pm**

#### Lunch Break

An optional box lunch is available for \$19. Otherwise, participants should make plans to provide their own lunch, either by ordering from the lodge restaurant, or packing their own. If you have some free time, visit the Ohio EPA's Mobile Education Center.

## **2:00 pm—5:00 pm Friday Afternoon Workshops**

### **W3—Building a Diversified Sustainable Funding Base for Nonprofits**

This session will address how to build and maintain a diversified sustainable funding base for nonprofit organizations. It will review the opportunities, challenges and appropriate timing associated with the pursuit of different sources of funding. It will also talk about the organizational capacity, culture, expertise and resources needed to support a robust fund development operation, as well as board, staff and volunteer engagement with fundraising. *Indoors, SG.* Barbara A. Greene, Common Good Consulting, Inc. \$5

### **W4—Great Lakes, Great Lessons**

Ohio Sea Grant uses hands-on strategies to teach K-grade learners about Lake Erie. Participants experience lessons on lake characteristics, beach litter, and solar technology that can be implemented immediately. *Indoors/Outdoors, LE, SC, OE* Lyndsey Manzo, Angela Greene and Susan Bixler, Ohio Sea Grant. \$5

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## **5 00 pm—6:00 pm**

## **Optional Activities**

Check into your room, go for a hike or enjoy some of the lodge's amenities. The Ohio EPA's Mobile Education Center will be open for you to visit. You can also spend some time perusing our vendor/exhibit area.

## **6:00pm—7:00 pm**

## **Friday Night Welcome Dinner**

Join us for the welcome dinner and chat with old friends and make new ones!

## **7:00pm—8:30 pm**

## **Friday Evening General Session**

Long before the Ohio State/Michigan football feud, buckeyes and wolverines were lobbing rocks over a 450 square mile area called the Toledo strip. Join Kevin Frailey, Michigan Department of Natural Resources and Josh Dyer, Crawford Park District as they reenact the Toledo Strip War of 1835-1836. Come find out the historical relevance of this skirmish and how it impacted the natural resources of the Great Lakes region for years to come.

## **Evening Activities**

### **9:00 pm—10:00 pm Night Hike (Weather Permitting)**

### **9:00 pm—11:00 pm Hospitality Suite**

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## **Saturday, April 14, 2018**

## **Concurrent Sessions, Keynotes, Exhibits**

### **7:00 am—8:00 pm Bird Hike tentative**

### **8:00 am—9:00 am Breakfast—Join your EECO Regions and network while enjoying your breakfast**

### **9:00 pm—9:15 am Welcome and Conference Opening—Brenda Metcalf, EECO Executive Director**

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## **9:30 am—10:30 am**

## **Concurrent Session 1**

### **A1—Sacred Grounds™: Building Partnerships for Stewardship and Water Quality**

Learn about a Great Lakes pilot of NWF's innovative Sacred Grounds™ Program and how it has mobilized a diverse group of community partners and faith communities to encourage water stewardship. *Indoors, LE, SG.* Marilyn DuFour, Toledo Division of Environmental Services/Rain Garden Initiative of Toledo-Lucas County; Dr. Manja Holland, National Wildlife Federation; and Hal Mann, Wild Ones Oak Openings.

### **A2—Creating a Collaborative Culture**

Learn successes and challenges in Cuyahoga Valley National Park (CVNP) and the Conservancy for CVNP creating a successful collaborative culture embracing diversity, equity, and inclusion in environmental education. *Indoors/Outdoors, LE, OE.* Katie Wright and Jesús Sanchez, The Cuyahoga Valley Environmental Education Center of the Conservancy for Cuyahoga Valley National Park

### **A3—Energy & the Environment 101**

Educators will participate in several hands-on classroom activities related to energy and the environment. Content will focus on 4th -12th grade science standards. All teachers will receive a watt meter. *Indoors, SE.* Susan Wasmund, Ohio Energy Project.

### **A4—From the Ground Up: The Science of Soil**

This educational program highlights the importance of soil, soil nutrients, and soil science to sustainable global plant and crop growth. New activities will be provided to enhance your soil science units in the middle and high school classroom. Attendees will receive curriculum, posters, flashcards, and videos. *Indoors, SC, OE.* Katie Nainiger Geauga Soil and Water Conservation District and Jamie Metzger, Chillicothe City School District.

### **A5—Water Education for a Crowded World**

Engage in hands-on activities that illustrate the history of human settlements on Ohio waterways and provide guidance on water resource stewardship. Receive electronic lesson plans. *Indoors, LE, OE,* Debra Gallagher, Bowling Green State University.

**10:30 am—10:45 am**

**Morning Break**

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**10:45 am—11:45 am**

**Concurrent Session 2**

### **B1—Games, Games and More Games! Learning through Outdoor Play**

Nature-based games help students release energy, increase motor skills, and collaborate while learning. Use games to teach classification, habitats, echolocation, camouflage, even history. Get outside! *Outdoors, OE.* Gia Giammarinaro, Cincinnati Park Board.

### **B2—Actively Engage Your Students with Stewardship Projects**

Go beyond your classroom comfort zone and challenge your students and yourself with real world learning opportunities outside in their community. While student academic standards are reinforced, students can gain valuable teamwork, technology, communication, and social skills while participating in environmental stewardship projects. *Indoors/Outdoors, LE, SG, OE.* David Murduck, Champion Middle School

### **B3—Accept Louv's Challenge! Leave No Child Inside!**

Explore how Miami Valley Leave No Child Inside is utilizing Ohio's Children's Outdoor Bill of Rights and motivating schools, libraries, parks and other locations to get kids outside. You will receive the tools to lead your community to be recognized as a "Best in the Nation Connecting Kids to Nature!" *Indoors/Outdoors, OE.* Cinda Hanbuch-Pinkerton, Miami County Park District and Douglas Horvath, Five Rivers MetroParks.

### **B4—Leveraging Nature-Inspired Invention for Environmental Education**

Explore nature-inspired invention curriculum via hands-on activities. Learn how to weave pre-school to 12th grade classroom objectives into environmental education in the field. *Indoors/Outdoors, LE, SC, OE, SE,* Adam Jason Pierce and Stephanie Diane Pierce, Viv Biomimicry Education Games.

### **B5—Creative Ways to Teach Science On the Spot**

Little Buckeye Imagination Sessions at The Dawes Arboretum exercise both body and brain with family-friendly, scientific fun! Rotate through our activity stations to find inspiration for programs, educational booths and classrooms. *Indoors/Outdoors, OE.* Beth Spieles and Nancy Gregory, The Dawes Arboretum.

## **New! EECO Kids Conference 2018**

While you are attending EECO conference sessions, your child/children can, too! EECO is offering its first Mini Conference for kids! Kids will **LEARN** about Environmental Education and gain an appreciation for nature and environmental stewardship. Like our adult attendees, they will **CONNECT** with new friends in a positive and supportive setting. This is a fabulous opportunity to enjoy the conference and begin a family tradition for your children to **GROW** into our future EECO Leaders, all while enjoying the amenities of the state park! Ages 6 and up are welcome! *A \$5 fee per child will be charged at registration.*

**10:45 am—11:45 am**

### **Morning Kids Workshop**

**What do I want to be when I grow up?** Through hands-on STEM experiments and activities, participants will explore many careers related to environmental education. All material provided. Each participant will receive a lab-in-a-bag take-home kit! Ebony Hood, Northeast Ohio Regional Sewer District.

### **12:00pm—2:00pm Lunch, Business Meeting, & Keynote Speaker**

Join us for a hot lunch and find out what EECO's been up to in the past year. This will include an opportunity to meet your current Board of Directors and review the annual budget.

#### **Lunch Keynote: John Huston, Teacher, Montgomery County Juvenile Court**

Ohio native John Huston spent the first part of his career as a scientist in animal agriculture working for land grant institutions. His work evolved to livestock/wildlife interactions that expanded to include various endangered species in multiple African countries. Now back in Ohio he works as a science teacher with Montgomery County Juvenile Court in Dayton. His goal is to introduce nature to a population of at-risk youth in a way that meets academic goals while building life skills.



**2:15pm—3:15pm**

### **Concurrent Session 3**

#### **C1—Environmental Career Day for Middle School Students**

Learn how public and private community organizations partnered to host an unforgettable, inquiry-based environmental career day for middle school students.. *Indoors, SC, OE.* Denise Natoli Brooks, Licking Soil and Water Conservation District, Jackie T. Bruns, Jobes Henderson a Hull Company.

#### **C2—Authentic Field Science to Environmental Advocacy**

Middle and high school students who monitored the water quality in wetlands and the West Creek in Cleveland Metroparks will share data and education and advocacy efforts supporting healthy water. Students will also lead simulated field data collection activities and monitoring techniques employed in their research. *Indoors/Outdoors, LE, SC.* Kathryn Kwiatkowski and Middle and High School Environmental Heroes, Case Western Reserve University, Leonard Gelfand STEM Center.

#### **C3—Experiencing STEM Naturally**

Natural History objects intrigue learners and stimulate the desire to touch, examine, and question. Learn how the Hefner Museum's Discovery Trunks use 3D scanning and printing to support outdoor education. *Indoors, OE,* Julia Robinson., Miami University

#### **C4— Youth Driven Place-making in Detroit, MI**

This session focuses on the experience from an organization that educates and employs youth to work on environmental issues within their community. The perspective of the coordinator who informed and empowered the youth to develop a project focusing on an environmental issue and the students experiences will both be presented. *Indoors, SC.* Tyeisha Hodges, EcoWorks- Youth Energy Squad and a Student from Detroit Public Schools Community District.

#### **C5—Studying Climate Change and Forest Ecosystems: A Systems Approach**

Join us to explore patterns and relationships between climate change and terrestrial ecosystems using recent, scientific, and U.S.-based forest data. Have access to 15 classroom-ready activities using your tablet, laptop or smartphone! *Indoors/Outdoors, SC, OE, SE.* Sue Wintering, Project Learning Tree - Ohio; Kim High, Metropolitan Park District of the Toledo Area.

**3:15 am—3:30 pm**

### **Afternoon Break**

**3:30pm—4:30pm**

### **Concurrent Session 4**

#### **D1—Integrating Wolf Education in your Programming**

In this session you will participate in a few wolf programming activities and learn about Timber Wolf Alliance's free resources to use in developing your wolf programming. Activities are aligned with Common Core and Next Generation Science Standards. *Indoors, OE.* Angela Rivera, Timber Wolf Alliance.

## **D2—Invasive Monsters of the Deep**

Long before the Walking Dead, the Great Lakes were fending off an invasion of live, flesh eating monsters. Come see one of the captured beasts and learn how it has changed Lake Erie and the Great Lakes ecosystem forever. *Indoors/Outdoors, LE, SC, OE.* Kevin Frailey, Michigan Department of Natural Resources.

## **D3—Tools Wildlife Managers Use to Manage Ohio's Wildlife**

Presentation will take a look at various tools that wildlife managers have at their disposal to manage Ohio's wildlife and how invaluable they are to the profession. *Indoors and Outdoors, SC, OE, SE.* Geoff Westerfield, President of Ohio Chapter of The Wildlife Society & Supervisor for Division of Wildlife.

## **D4—Green Teams of GreenSchool Investigators!**

Experience Project Learning Tree's (PLT) online GreenSchools Investigations for EC through 12th grade! Have fun and explore surroundings using ready-made, easy-downloadable online PLT tools that students in Green Teams can investigate water, energy, waste & recycling, site, and environmental quality. *Indoors/Outdoors, SC, OE, SE.* Sue Wintering, Project Learning Tree and Jennifer Elsworth, Metropolitan Park District of the Toledo Area

## **D5—Trashology 101**

Through hands-on activities, participants will explore recycling and waste reduction. Participants will complete a learning station board for classrooms/presentations and receive a recycling set to help facilitate the discussion of recycling, reuse, packaging and resource conservation. *Indoors, SE.* Marti Kolb, Licking County Recycling and Joanne Mudra, EECO Region 6 Co-Director.

### **3:30 pm—4:30 pm**

### **Afternoon Kids Workshop**

**Hands-on Nature!** Participants will immerse themselves in nature with fun activities and a craft. There will be a short hike and a visit from some wildlife ambassadors! Josh Dyer, Crawford Park District and Ebony Hood, Northeast Ohio Regional Sewer District.

### **4:30 pm –6:00 pm**

### **Networking, Silent Auction**

This is your chance to check out all the vendors and displays, chat with new and old friends, and get your bids in on all the fantastic silent auction items. Don't forget to check out the Ohio EPA's Mobile Education Center

### **6:00 pm –9:00 pm**

### **Awards Banquet and Live Auction**

Come join us as we close out the conference with a dinner buffet and stay to congratulate this year's award recipients. We will also have some fantastic items for you to bid on at the Live Auction. All proceeds go to the EECO Endowment Fund.

### **9:00 pm –11:00 pm**

### **Hospitality Suite, Night Hike—tentative**

**SMORE's Night-Cap** Kids can meet at the fire-pit for this classic sweet treat before turning in for the night.

## **Sunday, April 15, 2018**

**7:00 am—8:00 pm** Bird Hike tentative

**8:00 am—9:00 am** Breakfast

### **Field Trips**

**9:30 am—Noon**

**FT-3—Toledo Botanical Gardens:** A museum for plants, Toledo Botanical Garden offers visitors the opportunity to share, discover and enjoy nature's beauty. With over sixty acres of display gardens and relevant plant collections, TBG is full of beauty, tranquility and opportunities for exploration and reflection. This walking tour will highlight the multi-year Hill Ditch stream restoration and dam removal project as well as the plants throughout the garden including their seasonal interest flowers, fruits, bark and more!

**FT-4—Ottawa National Wildlife Refuge:** Much of Ottawa National Wildlife Refuge and the surrounding lands were once part of the Great Black Swamp. The 1,500 square mile Great Black Swamp was a vast network of forests, wetlands, and grasslands. The refuge manages about 6,500 acres of wetland, grassland, and wooded habitat. It provides valuable habitat for a diversity of waterfowl and other migratory birds, resident wildlife, and endangered and threatened species.

We hope you find this conference to be an exciting and beneficial professional development opportunity.

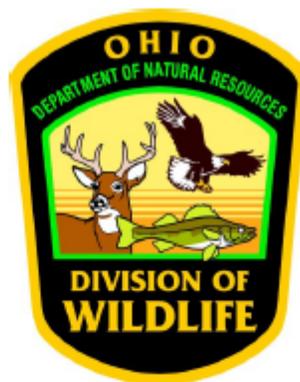
If you have any questions about the program, the registration process, or any other topics or issues, please contact Brenda Metcalf, EECO Executive Director, at 740-653-2649 or [director@eeco-online.org](mailto:director@eeco-online.org).

You can also contact Jeff Montavon, Conference Chair, at 614-644-3671 or [Jeffrey.montavon@epa.ohio.gov](mailto:Jeffrey.montavon@epa.ohio.gov) for assistance.

**We look forward to seeing you at Maumee Bay!**

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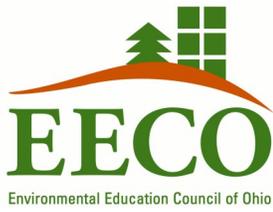
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# 2018 Annual EECO Conference Registration

April 12-15, 2018

Maumee Bay State Park

Early Bird Deadline 3/23/18

Register online at <http://eeco.wildapricot.org/>



**Registration Details (please print)**

Name: (last)		(first)	
Name as it should appear on name tag:		Do you have an Ohio EE certification (Yes or No)	
Organization			
Address			
City	State	Zip Code	County
Phone ( )	Cell ( )	Email	
Emergency contact (name)		Phone ( )	

\_\_\_\_\_ I will bring a silent auction item Special Needs \_\_\_\_\_ (mobility, vegetarian, food allergies, etc.)

**Presenters:** \_\_\_\_\_ I plan to attend the full conference (\$25 discount) \_\_\_\_\_ I plan to attend my presentation session only

**Join or renew your EECO Membership and save money on your conference registration!**

\$35 Individual	\$20 Student/Senior	\$50 Professional	\$70 Non-Profit	\$100 Sustaining	\$150 Business	\$250 Champion
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See additional information on the next page to join one of EECO's special interest sections.

Please indicate registration choices	Full Conference (Includes Fri dinner, all Sat meals, Sun breakfast)	Saturday Only (Includes all Sat meals)
Member	\$175 Early Bird/\$200 Regular	\$105 Early Bird/\$120 Regular
Non-Member	\$225 Early Bird/\$250 Regular	\$145 Early Bird/\$160 Regular
Student (Must show ID upon arrival)	\$140 Early Bird/\$175 Regular	\$95 Early Bird/\$110 Regular
Presenter (use Code)	\$150/member \$175/non-member	\$105 Early Bird/\$120 Regular
Group Rate (5 participants from the same organization)	\$160/Participant Early Bird \$185/Participant Regular	\$80/Participant Early Bird \$105/Participant Regular

\_\_\_\_\_ My child/children plans to attend the Saturday Children's Conference. \_\_\_\_\_ Number of children planning to attend.

**Field Trips and Workshops**

Note: Workshop and field trip participants can pre-purchase a box lunch for \$19, order from the lodge restaurant or pack a lunch.

**Friday Field Trips**

- \_\_\_\_\_ FT-1—Howard Marsh—\$5
- \_\_\_\_\_ FT-2—National Museum of the Great Lakes—\$15

**Friday Workshops**

- \_\_\_\_\_ W1—Getting Little Feet WET Early Childhood Curriculum—\$5
- \_\_\_\_\_ W2—Wetland Inquiry through Project Dragonfly's QUEST—\$5
- \_\_\_\_\_ W3—Building a Diversified Sustainable Funding Base—\$5
- \_\_\_\_\_ W4—Great Lakes, Great Lessons—\$5

**Sunday Field Trips**

Lunch and transportation are not provided, please plan accordingly.

- \_\_\_\_\_ FT-3—Toledo Botanical Gardens
- \_\_\_\_\_ FT-4—Ottawa National Wildlife Refuge

**Saturday Concurrent Sessions—Circle one choice in each column**

Session 1 9:30 am	Session 2 10:45 am	Session 3 2:15 pm	Session 4 3:30 pm
A1—Sacred Grounds™	B1—Games, Games and More Games	C1—Environmental Career Day	D1—Integrating Wolf Education
A2—Creating a Collaborative Culture	B2—Actively Engage Your Students	C2—Authentic Field Science	D2—Invasive Monsters of the Deep
A3—Energy & the Environment 101	B3—Accept Louv's Challenge	C3—Experience STEM Naturally	D3—Tools Wildlife Managers Use
A4—From the Ground Up	B4—Leveraging Nature-Inspired Invention	C4—Youth Driven Place-making	D4—Green Teams
A5—Water Education for a Crowded World	B5—Creative Ways to Teach Science	C5—Studying Climate Change and Forests	D5—Trashology 101

Total Registration Costs	
Conference Registration Fee	\$ _____
Friday Field Trip/Workshop	\$ _____
Friday Lunch	\$ _____
EECO Special Section Fee(s) The first section is free-additional sections are \$5	\$ _____
Additional donation to EECO Endowment Fund	\$ _____
Total	\$ _____

Register online at <http://eeco.wildapricot.org> with a credit card or make checks payable to EECO and mail with this completed form to:

Brenda Metcalf  
EECO Executive Director  
PO Box 1004  
Lancaster, OH 43130  
(740) 653-2649

If you wish to bring a guest who will be attending meals, contact Brenda directly to have them registered at a reduced rate.

## Early Bird Registration Deadline March 23, 2018

\_\_\_\_\_ I am interested in receiving Graduate Credit from Ashland University. The cost is \$210 for one credit hour. Please contact Linda Pettit, EECO Region 1 Director, at (614)486-9613 or [lpettit@franklinswcd.org](mailto:lpettit@franklinswcd.org) for information.

Certificates with contact hours are available upon request.

## Lodging Information – Maumee Bay State Park Lodge

1750 State Park Road #2, Oregon, OH 43616 Front Desk (419) 836-1466

Reservations—(419) 836-1466. Ask for the “EECO Conference” room rates.

- Room Rates for Queen, King and Bunk: \$111.00 per Night Per Room
- Cottage—2 Bedroom and 2 Bathroom Pet Friendly: \$255.00 per Night
- Cottage—4 Bedroom: \$315 per Night.
- Cottage—4 Bedroom Jacuzzi: \$399 per Night

Room Block will be held until March 12, 2018.

### Join one of EECO’s special interest sections!

EECO offers special interest sections to its members to promote networking among peers and groups with similar interests. EECO members may join one section at no additional cost to regular membership dues. Each additional section joined is \$5 per section. Please check which section(s) you would like to join.

\_\_\_ *Business, Industry and Trade Associations*

\_\_\_ *Environmental and Community-based Organizations*

\_\_\_ *Environmental Education and Outdoor Education Organizations*

\_\_\_ *Government Agency*

\_\_\_ *Higher Education*

\_\_\_ *Preschool, Elementary and Secondary Education*

\_\_\_ *Research*

### Cancellation Policy

All participant cancellations require written notice (U. S. Mail or electronic) to be sent to Brenda Metcalf, EECO Executive Director, P.O. Box 1004, Lancaster, Ohio 43130-1004, [director@eeco-online.org](mailto:director@eeco-online.org) and will be refunded according to the following schedule:

— full refund - at least 30 days before the conference — 50% - at least 16 days before the conference — no refunds within 15 days of the conference —

Please read and sign the notice below:

Please be aware that activities during this conference may carry risks which may not always be obvious.

I am aware of the risks inherent in these activities and assume all responsibility to myself whatever the cause. I agree to hold EECO, all conference personnel, and all participating agencies/organizations harmless for any injury that I may sustain in the course of participating in the conference.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_