LEX2019 •

Naaeee kaeee Brith American Association Image: Comparison of the second of th

16[™]Annual Research Symposium

OCTOBER 15-16

EDUCATING FOR A JUST AND SUSTAINABLE FUTURE



LEX2019 Welcome to the 16th Annual NAAEE

Research Symposium!

Dear Friends and Colleagues: We are very pleased to welcome you to Lexington, Kentucky for the 16th Annual NAAEE Research Symposium.

Research Symposium. Since is inception in 2003, the NAAEE Research Symposium has had a goal of fostering dialogue and collaboration among members of the EE research field, including researchers, policy makers, and practitioners at all stages of their careers. This year's researchers yours on discussing research processes and impacts. In addition to dozens of poster presentations sharing completed or in-progress research projects, a range of panets, roundtable discussions, and workshops will provide multiple perspectives on how we do EE research, and to what ends.

perspectives on how we do EE research, and to what ends. Discussion related to research processes are a mine at sharing (noveledge and new directions in research methodologies and methods, to build our capacity and expertises as research field, for example, well engage in a range of topic including collaborating ethically across researcher-practitioner and researcher-polymaker needs. working with new theoretical approaches, indigenous research processor and and publishing tips. Sessions on research impacts challenge us to increase the usefulness and effects of our research field in relation ts EP bolty and practice at range of scales. For exampl discussions on participatory and place-based action research, large scale comparative and collaborative, and septoraders, making the most of program evaluations, connections a range of other coips aim to the field, next steps in key papa and critical areas, and connected work.

connected work. We have crafted keynote speakers, discussion sessions, workchops, and poster presentations that showcase a range of innovative approaches to EE research processes and impact. Aligning with the overall NAR-EC conference there for this year, we also invite you throughout to consider how a sustainable future is also a just future, and the ways in which we must work as a community to ensure both are at the heart of our work. This will require reflection, transformation, and collaboration. We trust the Lexington gathering will not only be enjoyable, but will also spark nnovation, action, and community building. We look forward to your participatic

MM.

Marcia McKenzie Chair NAAEE Research Symposium

chedule at a Glance

9:00 AM-9:30 AM

9:30 AM-10:30 AM

10:30 AM-11:00 AM

1:30 PM-3:00 PM

3:15 PM-4:30 PM

7:30 AM-9:00 AM 9:00 AM-9:15 AM

10:15 AM-10:45 AM

10:45 AM-12:15 PM

12:15 PM-1:30 PM

2:45 PM-3:45 PM

Wednesday, October 16

Tuesday, October 15

Location Note: Patterson Ballroom is in the Hyatt Regency Lexington; Thoroughbred 1-5 and Elkhorn B-D are in the Lexington Convention Cente

Welcome

BREAK

BREAK

Poster Ses

Welcome

Keynote Address Nicole Ardoin

Buffet Lunch Roundtable Discussions Panels and Presentati

Closing Keyno Carolyn Finne

BREAK

Panels and Presentation

2

Keynote Address Oren Pizmony-Levy

Panels and Presentatio

Research Symposium Lun

Workshop Panels and Presentations

Oliva aguilan Olivia Aguilar Co-Chair NAAEE Research Symposium

LEX2019

Patterson Ballro

Thoroughbred 2, 3, 5

Thoroughbred 1 Thoroughbred 2, 3, 4, 5

Patterson Ballroom

Patterson Ballroom

Thoroughbred 1, 2

Thoroughbred 3, 4

Thoroughbred 1, 2, 3, 4, 5



College and university sponsors of the 16TH Annual NAAFF Research Symposium help further research in environmental education.



A Note on Combined Sessions

For combined panel and roundbable sessions, we ask that the final speaker on the program also play the role of session chair and timekeeper. Plases due the overall session time by the number of speakers, leaving at least minutes for discussion across the presentations at the end of the session. Materials for timekeeping will be provided in each roc adhere to their allotted time to ensure time for all pre you for your assistance with facilitating a dialogical re f on each roundtable, and we ask that all speakers is in the session, and for a closing discussion. Thank

Tuesday, October 15

9:00 AM-9:30 AM Opening & Welcome ۲ Dr. Marcia McKenzie, University of Saskatchewan Research Symposium Chair

Dr. Olivia Aguilar, Denison University, Research Symposium Co-Chair



Pattesson Ballicom Collaborative Reserch for Equitable Access to Collaborative Reserch for Equitable Access to Going global with preparing EE for the future, our social practice theory research exposes transformational awareness and iclentity experiment affordances and constraints to overcoming access to Estudy abroad programs. Presenters: Allison Freed, University of the Ozarks Aerin Benavidez, The University of North Carolina-Greensboro, Lacey Denise Huffing, Georgia Souther University

University Designing a Scalable Performance-Based Assessment Tool to Measure Environmental Eteranyon Learn how Rhode Island Environmental Education Sociation, Mass Audubon, and University of Wisconsin-Madison researchers collaborated to create a framework will be create a framework for assessing environmental literacy of K-12 students. This framework will be schools net year. Schools net year School Scho

environment and education Sustainable nt Goals and further the ability of online selers to offer impactful online learning

11.00 AM-12.00 PM Roundtable Discussions



<text><section-header><image><image><image><image><text>

Practitioner Research and the Critical Friend: Moving ECEE Toward ECEIS Thoroughined S Early childhood teachers are underprepared to Early childhood teachers are underprepared to Early childhood teachers are underprepared to arcitical friend's Leachers go beyond plantakes. Yet, through partitioner research, supported by activitiat griend's Leachers go beyond Eachivities implementation to employing research and theory based projects, extransing a reflective process for saf-study, support of children's agency, and promotion of a sustanabile word work. Presenters: Victoria Early, University of Chichmatel, University of Chichmatel University of Chichmatel, University of Chichmatel, University of Chichmatel, University of Chichmatel



University of Cincinnai Research on Assessing Connection to Nature Thoroughbred 2 NAZE is developing a guide to help researchers practitioners identify appropriate tools to assess connection in busics. This process has identified to a strain the second strain the second strain be most useful in assessing our connections to no Presenters: Louise Chawla, Linversity of Clorad Boulder; Gabby Salzar, University of Florida, Nild Boulder; Gabby Salzar, University of Florida, Nild K rtha Monroe, University of Florida

3:15 PM-4:30 PM

Presenter jeffrey Perrin, Ledey University Bending Deliberation and Information Deliberative discussions engage participants environmental issues, however, pointons should be environmental issues, however, pointons should be information of neuropartic information and neuroparticipants how to accomplish both and evaluate outcomes through the CUC program in Florida. Presenters: Natalie Cooper, University of Florida; Martin Alonco, University of Florida;

Tu Building Capacity for Local Environmental Practice Through Online Learning This research will examine the effect of online pe-mentoring and interventions to increase self-effic on online participants' past-course environmenta education and stewardship practices. The results address the environment and education Sustaina



Poster Session

Community Gardens, Educational Workshops, and Family Sustainability A mixed methods approach was employed examini-the impacts of community garden based educationa workshops in families' sustainable behavior. Data collected through surveys, observations, interviews, and drawings indicate that families benefited from those workshops through socialization, family recreation, increased gardening skills, and financial behaviors were reported. Per Period Starvismakis, Indiana University-Bloomington

University-Bloomington Comparing Teaching Methods in an EE Field Trip Program This research is a comparison of single day field trip program effectiveness using a teacher-centered methodology versus an inquiry-based methodology the form of a 5E lesson plan. The focus was to bette understand how and what students are learning in understand how and what students are in the field by utilizing methods from the da Presenter: Michelle Pearce, Environment

EE Research Field Session: Working For/Towards Justice and Sustainability in EE Research Meet at the Old Fayette County Courthouse, 215 W. Main Street 2:00 PM-5:00 PM

LEX2019

200 PM-500 PM In Embry Userington resident, ec-360 Community Fellow, and founder of the Sustainable Communities Networki and Olivia Aguitar (Associate Professor of Environmental Studies at Denison University) will guide participants through a walk of advantable ties attending to issues of jurice and sustainability the way to encourage thoughtful dialogue around what it means to do ensearch for and towards justice and assistmability. The workshop will culminate in a facilitated discussion that acks participants to identify the multiple ways and contexts in which we can attend to issues of cluster and sustainability in E readwich, (Pre-egottation required.) **Becarch Networking Dinnet**

ecial Events

Monday, October 14

Note: These pre-symposium optic additional fees and require register

Research Networking Dinner Meet at Zim's Café, 215 W Main Street, Suite 25 zimscafe.com 7:00 PM-9:00 PM Tour new sour period of the source of the so



IRKS: Linking Citizen Science and nmental Education with Research Evidence li lane early findings and seek feedback on an gress systematic Itterature review investigating et appling outcomes of community and cližen to the nuances of this process and early findings w practitioners design and participants engage m caractioners design and participants engage for common mental limits. The caliboration chrostopher Jadallah, University of California-

Exploring Social Emotional Learning in Residential Environmental Education What is social emotional learning (SEL) and what does it look like in residential environmental education? Our study explores how a group of deven residential EE program providers currently think, talk about, and fundal fundings, awell as the relationship herween



ng Science Dispositions Within the of Stealth Environmental Education environmental education approach embeds

n environmental education approach ei in experiences that appeal to broader es. But, because it integrates multiple domains, it presents challenges to rese es. Guided by our example science-art-we will lead a discussion on research w

is. rs: Cathlyn Stylinski, University of Maryland r Environmental Science; Kelly Riedinger, tate University Center for Research on ITEM Learning; Ruth Kermish-Allen, Maine

searching Eco-Fascist Responses to vironmental Crisis scit stocial movements are increasingly ordinated and visible. Recent violence has en motivated, in part, by concerns about global vironmental concerns have animated, and are rrently animating, fascist activities, and how vironmental cuciation researchers might enage. nts pedagogically, conceptually nethodologically.



ning the Field: A Call for Mixed nethodology alone. nn Rossmiller, The University of

Cultural Studying and Designing for Youth Agency in Citizen Science and Museums Wentl Bicass our research methods on youth Wentl Bicass our research method loading through natural history museum-led ditters science through natural history museum-led ditters science through natural history museum-led ditters science findings and a design-based research approach to re-design E programs across settings. Presenter: Margun Gladin, University of California-

11:00 AM-12:00 PM

Panels and Presentations

Panels and Presentations Addressing Affect and Socio-Emotional Learning in Ef Evolution and Research torougherd 5 - Pros and Cost of Affective Measures of Forking evolutions (Ffectiveness When researching, evolutions) and designing focus on involvedge, attrude and behavior focus on involvedge, attrude and behavior focus on involvedge, attrude and behavior to bok at current research processes including their own to learning the second cost of ther own to learning the second cost of ther own to learning the second cost of ther own to effective mess, with particular emphasion on affective messarca cost - Embedded AcadeSensements of OrchelsEngenerat

Presenter: Emily Islanicky, Minnesota Zoo Embedded Assessments of Scalaf-Temotional Learning in Residential Environmental Education biow can we assess studenti outcomes in more direct and less intrusive way? In partnership with a residential Education education learning outcomes that are unobtrusive, easy-learning outcomes that are unobtrusive, easy-co-administer and Imegrated into learning experimes. We discuss our design process, challenges, and feasibility of langs in messures presenter occhanos langs from the sources presenter occhanos langs for langs and the messives presenter occhanos have indeged to langs and feasibility of langs and the source internet occhanos langs and the sources of the sources of the source of the source of the sources of the sour

Kathieen O'Connor, Naurelfridge Expanding the Research on Garden-Based Education: Culture and Teacher Voices Thoreughered 2 There is growing interest in research related to agriden-based education (GBE) in schools; howeve a critical examination of culture and teacher voice as they inform research and program developme is missing. This panel highlights expansion opportunities in GBE research and explores with participants how to broaden the research. Presenters: Dilartu Williams, Portland State University; Shella Williams Bidge, University of Minnesota; Scott Morrison, Elon University



r. Now what? We discuss setting ng personal ambition, and pursui es while avoiding burnout. We w from EE community members at as this discussion will ideally incl actives

Panels and Presentations
Calcurally Responsive Evolutation Leading to
Information and Information Information
Information Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Information
Info

55

1:30 PM-3:00 PM Workshop Goals, Ambition, and Work-Life Balance: Taking the Next Step in Your Career Thoroughbred 1 fou have finished school and are settling into your EE career. Now what? We discuss -jours, assessing -





TubbaV Critical Environmental Agency: Collaborating to Envision a Nore Just Future Join us in discussible, brow, when students and teach deepen conceptual knowledge, engage in identity development, develop a critical consumers of social action, they become empowered to envision amore just future to address energinger or Honic environmental problems their communities face. University: Healther Socie Genga Southern University: Healther Socie Congra Southern Healthern Socie Congra Southern Southern Socie Congra Southern Southern Socie Congra Southern Southern Socie Congra Southern Southern Socie Congra Southern Socie Congra Socie Co

University: Roberta H. Hunter, Rutgers University Designing for Youth's 'STEM Medity Porfile Instrument, We introduce the STEM Medity Porfile Instrument, an arrentrop-soly is univer / Inst yields a combination of interest, essigns, revertor, and reversitator; We univer Universe, designs, revertor, and reversitator; We universitator to shape curricular design and study how youth made sense of their E-STEM-Inited Identity work. Carolina at Greenaboro: Heidd Caroline, University of North Carolina at Greenaboro Development of Connection with Nature Scale

North Carolina at Greensboro Development of Connection with Nature Scale for Taiwanese Adolescents Given the lack of specific scale for adolescents' nature connection in academia, this study shares a three-dimension scale with 11 terms for junior high school learners. The results showed that the Connection with Vature Scale was an appropriate tool with acceptable it, construct reliably, and criterion-elated validity. "Pre-other Vin-Chi Seng, National Tachung University of Education

of Education for Sustainability in the Holy City-jerusalem What special characteristics does Education for Sustainability have in a city as diverse as Jerusalem? How do the social, cultural, and religious missions of teachers interact with EE? And what undan policy can make EfS and EE successful under these conditions? Presenter: Naama Sadan, The Hebrew University

In jerusalem Environmental Education Field Trips: How Many Visits Does It Take Sometimes It can be difficult to know if one-time environmental education field trips make a lasting difference for students. In this project, investigators sought to understand the relationship between repeated exposure to an informal socience learning center and students conservation ethic as part of a conservation education curriculum. Presenter: Lauren Watkins, Impact by Design, Inc.

Environmental Education in a Bahamian Primary School Bridging Community and Conservation My research within the Bahamas focuses on the effects of implementing environmental education at the primary school level in a nenpovering and culturally relevant manner. The data demonstrates the students ability to disseminate environmental knowledge across the island, a Caribbean example of children becoming environmental almabasadors of children becoming environmental ambassador bridging community and conservation. Presenter: Olivia Walton, University of New Haver

Presenter: Obia Walton, University of New Haven S-STAM Higher Education Experiments Preservice Teachers: An Action Research approa to evaluate the impact of an ESTEM Intervention or TSTM in preservice elementary school teachers. In TSTM in preservice elementary school teachers in this session we will discuss the intervention, the coder to identify areas of improvement. Presenter: Angela Dirges, Indiana University

Presenter: Angela Burgess, Indiana University Evaluating Conservation Education Outcomes in Schools in India's Western Ghar A new conservation education program for 10-to 13-year-old's being implemented in India's Western Ghats to nurture an interest in wildlife and to teach students how to betre coexist with wildlife. Evaluation research has assessed whether contributions discoverse formuladious structure and wiuuine. Evaluation research has assessed whether participation influences knowledge, attitudes, and empathy with wildlife, and if program cost influence these outcomes. Presenter: Gabby Salazar, University of Florida

Presenter: Gabby Salazar, University of Florida Examining the Social-Fmotional Effects of Garden-Based Education School gardens are a space for children to (re)connect with nature. The benefits of the outdoors for youth skills that lead to success. This in-progress research skills that lead to success. This in-progress research agridre-based education at a Title 1 elementary school In North Carolina.

Presenters: Soft Morrison, Leon University Exploring the Impact of Multimedia Environmental Education on Home Practices Will a multimedia environmental education program using songs and animations have any impact on children and their familes? Through the lens of on social practice theory, this study explores impact, and factors that help on inder any process of change. Presenter: Victoria Circus, The University of Sheffield

Gaining Perspective: Insights From a Culturally Sustaining Analysis of Qualitative Program Vealuations This work explores the program evaluations of The work explores the program evaluation of the cultural law scalar and the cultural law endpoint of the cultural law scalar grant of pedagony. The research engages how equity/focus environmental programs achieve their educational goals, and also contributes to the program and of the it by suggesting mechanisms through which culturally sustaining practices can actually be enue reservers. Jaw Hugol Have, Samford University

Presenters Juan regular Analys Juan tod University How Middle Scholl Students Conceptualize Sustainability in Farm-to-School Programming Farm to school (FTG) is a growing educational field, and an important way that environmental education can reach into the F12 school day (USA 2015). Our project takes a new angle on F15 research. (occusing on how this educational movement impacts student thinking around schaamility). Presenters Andle Biscegila, Grow It Know It

vresenter: Andre Bisceglia, Grow It Know It Dioth't Know What Science Was or Gold Be Orizm science promotes student engagement in environmental justice and instress in STM educata and careers. This gualitative study reports positive self-efficacy in science for yout who positiopated in an informal citizen science project. Authors emphasize the role of mentors and authentit science engagement to change students' perceptor of Science.

secred. senter: Michele Koomen, Gustavus Adolphus

College 1 Corta Touch That?" Attitudes Regarding Scary or Disgusting Science Whom we take our preservice teachers outside for recological investigations, many complain about its subjects in the supervised of the subject of the students, it is important to understand their attitude towards "disgusting" and "scary" science and how these attitudes affects their sid=fefficact towards teaching about these concepts. Theorem: Nuclei Megotic, Indiana University Teaching Towards and University

Increasing Climate Change Concern of Parents Through Their Children

Through Their Children As the impacts associated with climate change grow increasingly complex, the need for a citizenty prepared to address them cannot be overstated. Come visit this poster, where we will discuss the exciting results of an experiment aimed at increasing climate concreton of parents through their children. Presenter: Damiele Alexis Lawson, North Carolina State University

10:45 AM-12:15 PM

Making Sense of Environmental Education Research: Strategies for Access, Review, and

Workshops

The Influence of Children's Participation in Nature Activities This study divided the participants into an experimental group and a comparison group. The nature camp and rural camp performed connection, "prozenwironmental behavior," an 'quality of Ife. The rural group recological self and "appreciate nature" positively affect the pre-environmental behavior. Presenter: Tayhun Tseng, National Tsing Hua University

University Intergenerational Learning Beyond the Immediate Family: Soudents as Environmental Change Agents This poster present data from an investigation of intergenerational learning through marine debris programming. We hypothesize that Student program participation will lead to increased knowledge of marine debris, environmental al-Enfloacy, and pro-environmental behaviors. We hypothesize that community members will report higher perceived importance of using scientific data in environmental Presenteric Jenna Hardhy, North Cancellans State University and ORISE/US Environmental Protection Agency

of South Florida-3L Petersburg A Mixed-Methods Approach to the Impacts of Field Trips on Urban Adolescents The impacts of a one-day wetland field trip on the environmental knowledge, feelings, and behaviors of agroup of Urban middle school students are explored. Changes in student connectedness to muture and willingers to carry out pre-environment qualitative statements allow the student voice to come through.

Learning from Environmental Education in India: Opportunities and Limitations Opportunities and Limitations Infalia hosts aysterm dynetmens-tupported environmental education centers throughout the contry, which conduct a diversity of programs for programs and asks what can be learned from then by other developing countries as wells as by environmental education practitioners in the USS presenters: Releace Johns, University of South Presenters: Releace Johns, University of South of South Provides Developing Countries and of South Provides Developing Countries and South Provides Developing Countries and South of South Provides Developing Countries and South South Provides Developing Countries and South Countries of South Provides Developing Countries and South Provides Developing Notice Developing Countries and Developing Countries and Developing Notice Dev

through. nter: Katherine Hoover, Texas Tech University

Tussow Modeling an Inter-institutional Faculty Development and Teaching Community The Trillium Statianability Workshop is an annual daylong course to build capacity to teach sustainability across the curriculum. For the past decade, researchers at Duke have brought together those with teaching repossibilities from institutions acro North Candina. We want to bhare our successes an December 2014 Woman Both. Duke University

Searching for Situated Decoding of Gender in Forest Schools Within forest schools, the coexistence of traditionally within forest schools, the coexistence restrictions a unique domain for gender expression. This in-progress research project explores how forest schools might decode gender expressions and offer children more options for gender expression. Presenters: Abigail Decker, Bon University; Scott Morrison, Ebn University.

Charlotte Clark, Duke University A Pilot Study of Validating Environmental Identity Scale in Talwan Environmenta Identity was a self-definition about how environments become a maximgful part of wire ver-the revised Environmental Identity Scale (Dayton, 2019) in the Talwanese context. I will share the result and discuss its influence on environmental behaviors. Presenter, ¹u-Chi Tseng, National Talchung University of Education

velopment Program is poster presents preliminary results from an gaged study with the positive youth developme ganization, Rocking the Boat. The goal of the search is to explore the intersections of place, wardship practice, and the development of

A Science Outcomes Study Using the "Growing Up WILD" Curriculum

Laterice outcomes actudy dang use informing or JLDP Carricolulus multiple treatment plus control research design in pretest and postsets was utilized to determine Growing up WLD* (call det trip, impacted children's lience outcomes. Children who participated in GUW titvities attained significantly higher postsets scores ender and pretest scores were also predictors. senter: Meg Gravil, Uniwersity to Louisville

group identities among youth participants Presenter: Anne Armstrong, Cornell Unive

Norrison. Elen University Tile Sobiel Impact Measurement of Natre Education Organizations in Chrisi. To attracta audeences and austant Indenig, nature education organizations need angible accountabile for the social Impact neasurement for nature education of the social Impact and the social angible a social Impact measurement for nature education in China. , Practice, and Identity in a Positive Youth opment Program

Presenters: Mi Yan, Cornell University; Marianne Krasny, Cornell University

Krashr, Cornell University Statewide Censor of Environmental Learning in Maine Maine conducted a "state of the state" initiative for environment education in both formal and informa learning cortexas. This patter will share our process multiple audiences and findings from our state and state are haping to inform needs for the field moving forward. Presenters: Alexandria Brasili, Maine Mathematics and Science Alliance; Burlt Kermish-Allen, Maine Mathematics and Science Alliance

Mathematics and Science Alliance Students of Color Identify Ways Environmental Faculty Can Advance Racial/Ethnic Diversity in Undergraduate Programs Concerns of students of color studying environmental science let to a grounded theory study on the environmental programs. Results inform environmental programs. Results inform environmental programs. Results inform environmental sciences and equitable environmental sciences Schuler, Loyda University Chicago Presenter: Traina Schuler, Loyda University Chicago

Studying eSTEAM: How Arts Interaction Sparks Engagement in Environmental Education in Pre-C4-G Lasscoords Practicing pre-K-8 teachers visited Springs Eternal: Water, Hope, Change, and rexhibit, a part of a comprehensive professional development project focused on integrating EE across the curriculum. W will share the ways in which the teachers reacted a Janned to shift the tracking as a result of this vis Presenters: Lauren Madden, The College of New Jerson

ing Citizen Science to Build STEM Netwo r Underrepresented Students or Underrepresented Students the Caribben experienced two category 5 hurricanes n 2017. Following, our school embarked on a citizen cience project with Hanvard University and Virgin slands National Park to create a STEM network and athways for underrepresented students. We will liscuss how citizen science can build STEM networks and pathways.

and pathways. Presenter: Melissa Rian Wilson, Gifft Hill School Naves of Emotion: Getting a Feeling for Ocean

ducation his project investigated the landscape of notivations, strategies, and goals of informal ocean clience centers in Orange County, Caldronia. The objective was to understand how ocean education sput into action on the ground across the county, and how cohesive the expectations for outcomes re within the environmental education for usstainability framework.

Invine Youth Interactions with Environmental Data in Community and Citizen Science How can producing data and napking large datasets support environmental learning and youth agency? Drawing on case studies from youth work with community and citizen science data, we will discuss youth interactions with data, how these interactions can make learning meaningful, and design imolications. ations. nter: Emily Harris, BSCS Science Learning

۲

4:00 PM-6:00 PM Research Symposium

Reception

1:30 PM-2:30 PM

Panels and Presentations

Assessing Environmental Behaviors Through the Environmental Stewardship Scale

horoughpred 3 this session, we introduce a new instrument aimed treasuring environmental behaviors. The General nivronmental Stewardship Scale measures the tensity of commitment to environmental behaviors or normon activities to transformative lifestyle hanges. We will describe the scale's validation efforts in data analysis exchinques. resenter: Tina Phillips, Cornell Lab of Ornithology

Critical Community-Based Food Systems Research: Uncovering Tensions and Possibilities

Research: Uncovering Tensions and Possibilities Throughbred Explores the critical role of the research process in producing critical food systems education research that achieves environmental, economic and social justice gails. Facilitators consider how to an equipte activities stronger postionalities and how to advise activities and community organizations. Presenters: Teresa Lucor-Bidart, California State Polytechnic University-Pomons, Starts Stapleton, University of Oregon; Dilafruz Williams, Portland State University

Impacts - Louiseuron Processes and Thoroughbred - Join us for a candid discussion on the processes and potential impacts of publishing environmental education research in books, peer-reviewed journals, writing and editing books, as well as serving as editors on leading EE journals will hoost the session. Moderators: March Monroe, University of Florida, Alan Red, Monsah University, Marcla McGenzes, Alan Red, Monsah University, Marcla McGenzes, of Saskatchewan.

ditors' Panel: Publication Processes and mpacts

Wednesday, October 16 7:30 AM-9:00 AM

Graduate Student Breakfast 9:00 AM-9:15 AM

Welcome

9:15 AM-10:15 AM



<text><image><image><image>

Research: Strategies for Access, Review, and Synthesis Thoroughbred 1 Environmental education research studies include a diversity of methodological orientations, themes, and outcomes. This workshop provides skill-building strategies for rigorous reviews of studies. Participants will learn how to (a) access large numbers of relevant studies. (b) develop reliable criteria for inclusion, and (c) adamina. Presenters: Diafruz R. Williams, Portland State University: Cathy ordan. Children & Nature Network Michael Barnes, University of Minnesota-Twin Cites University, Carety Distance, Chanter is a value the vectories, Michael Barnes, University of Minnesote Twin Clues Professional Development Workshop for Graduate Studens or Early Careter Professionals in EE Thorougheed 2 Joins on a hardware studies, The De-minute stations include a CV/Resume station, a Social Media & Academis station, and a station on Time Management & Writing Groups. To maximize your time in this workshop, Delase bring a printed or electronically accessible version of your ResumerCV. Presenters: Jenna Hardley, North Carolina State University, Deventoring, Computing Ministry, Michael University, Deventoring, Computing Ministry, Michael University, Deventoring Accessible version and your ResumerCV. University, Deventoring Computing Ministry, Michael University, Deventoring Accessible version and your Resumer University, Deventoring Accession, North Carolina State University, Danielle Alexis Luxson, North Carolina State University, Danielle Alexis Luxson, North Carolina State University, Danielle Alexis Luxson, North Carolina



12

۲

10:45 AM-12:15 PM



Panels and Presentations





Frameworks and Theories of EE: Place-Based Politics, Cultural Constructivism, and Engaged Scholarship Thoroughbred 3 Horoughbord 3
 Hace as Policial Entity: Rethinking Place in
 Environmental Education
 Environmental Education
 How do we cultivate environmental citizens
 to tackle environmental controversies and act
 policially? This presentation deborates on the
 significance of environmental controversies and back
 policially? This presentation deborates on the
 significance of environmental controversies on the
 suddens the policial completencies to wersite
 in place-based education in order to build in
 students the policial completencies to wersite
 in sustainability.
 Presenter: Yun-Yeen Chan, Peas State Linkership

Presenter: Yun-Wen Chan, Texas State University - obtimat Construction: Understanding the Context of Nature-Knowing How do we truly known nature and make sense of an outdoor environment? Cultural constructions is an epistemological approach to outdoor education that recognizes the power of one's unque culture in creating meaning out of what is perceived with the five senses. Nature-knowing environment. Presenter: Stoph Dean, George Mason University

Presenter: Steph Dean, George Mason Universit Derliging Politica Icology and the Learning Sciences, Towards Engaged Scholarship This session presents a framework for augmenting our approach to environmental eculation research through a synthesis of politi ecology, the learning sciences, and participatory ambrids. A survey of key asamples highlights support the development of new and innovable approaches to practicing engaged scholarship. Presente: Lee Frankel-Goldwater, University of Colorado-Boulder

The Legacy of Carol Saunders: Conservation Psychology and Environmental Education

Psychology and Environmental Education Thoroughbred Conservation psychology brings researchers from different disciplicate behaviors that conserve and reactor the natural workd. This panel shares the legac reactor the natural workd. This panel shares the legac of Carol Saunders, who helped catalyze this field and would be an environmental shares and the shares and would be an environmental shares and the shares and would be an environmental shares and the shares and presenters: Amy Bodwell, Cheshire County Conservation Directic Martha Monnes. Indiversity of Florids, tathayoon Arar Kallal, Seattle Aquarium, Malker Kernits-Neiter, Maine Mathematics and Science Alliance; Kathayo Stevenson, North Carolina State University

Conducts and Scien Conducts Nathryn Stevenson, North Carolina State University Moderator: Louise Chawla, University of Colorado-Boulder

1:30 PM-2:30 PM Roundtable Discussions

Addressing Affect and Socio-Emotional Learning in EE Evaluation and Research

SEE Evolution and Research ended the second second

Presenters: Erica Blatt, Rowan University Toward a Framework for Teaching and Learning Outside Besearch suggests there are multiple benefits to suggest the second second second second venture from the classroom with their students. In response, we have been working on a framework, that identifies and scaffolds where and how teaching and learning can happen to outdoor learning environments. Presenters: Scatt Morrison, Elon University

Wooks Current and Emerging Trends in Farly Childhood Environmental Education Research Learn about the laster research published in the International Journal of Early Childhood Environmental Education, including a special issue on post humanist perspectives, share your own research interests, and discus whate, needed to continue to advance research in early childhood environmental education. AREE, Yash Bhagwanji, Rhoida Adurich University

"New" Frameworks for EE Research: New Materialist, Post-Humanist, and Post-Qualitative

Technique to Technicity: Becoming in Qualitative Inquiry Through Writing

Presenter: NICOE BOWERS, ARIZONA STATE UNIN • The Promise of New Materialism in Sustainability Education Research Driven by compelling questions posed by an education for sustainability researcher from an international research team, participants this session will engage in a thought-provok conversation about new materialism and ent huspeling an arrier internel foromeunder conversation about new materialism and post humanism as aspirational frameworks for conducting ethically inclusive research in marginalized regional and rural communitie Presenter: Sherie McClam, Manhattanville Cr

Presenter: Sheré McClam, Manhatamile College Uppacking Ervironmental Literacy at the Community Scale Current perspectives on environmental literacy tend to focus on the individual. However, given the social nature of learning, environmental literacy needs to be better understood at the collective level. In this session, we will explore what environmental literacy may look like collectively and how we may examine it development. Presenters: Mde Wineston, Stanford University; Archana Kannan, Stanford University

() naaee

TUCSON2020

Methodologies and Strategies of Research-Practice Partnerships Thoroughbred 4

oroughned 4 Navigating a Reserch-Practice Partnership in a provide the second second second second second research-practice partnership (RPP)? This presentation focusions on an RPP between university-based researchers and urbane intervinnement a classics. RPPs require increased them there is a second second second second these challenges from both the researcher and practitioner perspectives. Presenters: Margine lencht, University of Prestnergy Tajji Kelon, Ditsburgh Parks Conservang

Conserving ' The Dynamic of Conducting Research in Early Environmental Education In Pressarch Process in environmental education is dynamic. In this presentation, we will talk about the embodiological environmental and the solution of the environmental education facilitating the development of the research process, We argue that as researchers we should be flexible and comfortable with this dynamic. Presenters: Ann Ressmiller, The University of Circinnus', University of Circinnus', University, University of Circinnus', Canonali, University of Circinnus', Circinnus

Lesle Kochanowski, University of Cincinnati Mukimodal Critical Discource Analysis: Renewable Energy Education, Media, and Beyond Thoroughberd 2. This presentation will explore multimodal critical discourse analysis, an illuminating methodology for examining the representation of salent issues through speech, tex, and imagery in media, policy, and curricula. Sociacricial renewable energy discourse and education will be discussed as an areas of interest. Presenter: Gregory Lowan-Trudeau, University of Calgany



2:45 PM-3:45 PM

Closing Keynote Dr. Carolyn Finney Patterson Ballroom

Patterson Ballroom Caroly Finner, Phb (is a storyteler, autor and a cultural geographer. Sterving Finner, Phb (is a storyteler, autor and a cultural geographer. Sterving Sterving Sterving Sterving Sterving endogless environmental issues. More broady she likes to trouble our theoretical and methodological edges that shape knowledge production and determine whose knowledge cousts. Along with public speaking, writing, consulting and tacking. Cardyn has Hed faculty positions at Vetleteley Colleges, the University of California-been a Fubright Scholar and a Canon National Parks Seines Scholar, and received a Mellon Postdoctoral Fellowship in Environmental Studies.

Fellowskip in Environmental Studies. See has served on the US Matlona Parks Advisory Board for right years, which assists the National Park Service in engging in relations of reciprocity with diverse communities. Carolyn has been interviewed by media outless (Magginie and Weserek). Her diverse communities. Carolyn has been interviewed by media outless (Magginie and Weserek). Her diverse and National Geographic, and has written operation for outgraphic, and has written diverse and National Geographic, and has written diverse and National Geographic, and has written diverse to develop greater cultural competency within environmental organizations and institutions, challenge media outless on their representation of shapes who gets to speak to environmental issues and determine policy and action.

and determine policy and action. Cardyn is currently working on a number of proje induking a new book (creative non-fiction) that explores identity, race. Ibed experimence and the construction of a black environmental imaginary. Word: Nature Revisited), This fall she is the Arta-Residence for the Rerultacy Foundation for Worme Fall Residency Program and she is doing a two-yea reading in the Franklin Environmental Center at

56







49[™] Annual Conference October 14-17, 2020 17[™] Annual Research Symposium October 13-14, 2020 TUCSON, ARIZONA

From bluegrass fields to saguaro forests

"Tucson had opened my eyes to the world and given me ... a taste for the sensory extravagance of red hot chiles and five-alarm sunsets." -BARBARA KINGSOLVER 16

LEX2019







LEX2019 Naaee kaee Schedule at a Glance. Check daily schedules (starting on page 55) for TIME TUESDAY WEDNESDAY THURSDAY FRIDA 7:00 RESEARCH SYMPOSIUM GRADUATE STUDENT/EA CAREER BREAKFAST 7:30–9:00 7:30 8:00 NCURRENT ONCURRENT SSIONS 8:30 ONCURRENT 9:00 8:30-10:00 8:30-10:00 8:30-10:00 9:30 9:00-4:30 RESEARCH SYMPOSIUM 30 MINUTE 30 MINUTE COFFEE BREA 9:00-4:30 WORKSHOPS (Full day, morni and afternoon) 11:00 10:30-12:00 11:30 FIELD TRIPS (Start and end 12:30 WORKSHOP/ RESEARCH SYMPOSIUM LUNCH 1:00 1:30 2:00 12:00-1:30 CONCURRENT CONCURRENT SESSIONS 2:30 3:00 2:15-3:45 4:00 RESEARCH SYMPOSIUM RECEPTION 4:30-6:00 4:00-5:30 5:00 5:30 6:00 6:30 7:30 8:30

Here are some highlights of the week:
ue annual Research Symposium, highlighting current research in the field (Jueddy and Vednesday)
an exciting conference kickoff (Faturing a welcome reception and a ksynote presentation by John Ficker, president of Prescu College and former president of the National Audubon Society (Wednesday)
The chibhlic Fin; showcaing new resources and programs in environmental education-poster presentations and the Affilate Welcome.
fingsgring and provocative plenary presentations, including a talk by Mona Chalabi. Data Editor for the Garding Intrustayl, and a series of short flash talks, moderated by a taste of how the creative and parsing the site of how the creative and parsing the site of how the creative and parsing the site of how the scatability of the standard target of the Garding Intervelop.
Ourubon and Blues on Friday—an engaging evening foosted on Kentucky history and culture with a chance to make your own. Deriy that sand the site of how the sociation and have a dhance to provide input renowned the Association and have a dhance to provide input renowned the Association and have a dhance to provide input renowned the Association and have a dhance to provide input renowned the Association and have a dhance to provide input sheet shead. HAAEE's annual business meeting on Statrady morning, where you can learn more about the Association and have a dhance to provide input sheet shead. HAAEE's thights toording and parsing magnet of velonteers, our Association for the sociation and annual Rules and manage and the adhance to provide input sheets and the adsociation and shead adhance to provide input sheets and the Association and shead adhance to provide input sheets and Aldress Totrady morning. Where you can learn more about whe having the conference parsing and advisory developing and eventures, our Association for the whomematile Education, NAAEE's annual Advisory Cournel, and staff, our annang Alfilate redoorth, hundreds develo

where the configuration was the second se

Judy Braus Executive Director Conference Manager

AL NAAEE CONFERENCE | LEXINGTON, KY 5

arm regards from your conference leadership team

Charlett Clark Judy Braue Spi Mann

Here are some highlights of the weel

I loved being outside. We'd hold lightning bugs in our fingers and pretend they were diamond rings.





ENVIRONMENTAL EDUCATION WEEK

WHEREAS, the beauty of Lexington-Fayette County's natural resources - from the horse farms, to our streams and to the majestic Kentucky River - must be protected for future generations; and

WHEREAS, to sustain the precious land and water ways of our great city requires the stewardship of every person, as well as future generations; and

WHEREAS, stewardship is not possible without a strong sense of connection to the natural world and an understanding by our individual and collective responsibilities to protect it; and

WHEREAS, environmental education increases student engagement in science, improves student achievement in core subject areas, and increases student awareness about how they can help restore the health of the natural environment; and

WHEREAS, there is a need to engage individuals and organizations throughout our region to sustain a high quality of life through education, conservation, and the restoration and protection of natural resources.

NOW, THEREFORE, I, Linda Gorton, Mayor of Lexington in the state of Kentucky, do hereby declare October 14-19, 2019, as

ENVIRONMENTAL EDUCATION WEEK IN LEXINGTON

Kinda Sorten MAYOR

ERENCE | LENINGTON, KY 6





Welcome from the home team!

Charlotte Clark Board Chair

It is such an honor to host this gathering of environmental educators from and to have the opportunity to showcase our wonderful state and the ama in our environmental education community.

In our environmental education community. Lexington is the Hores Capital of the world, surrounded by over 400 horse farms with green pastures and beautiful Thoroughbreds nourished by the limestone in the soil. If you wink to see horses up docs, Keeneland racceurone holds in Eal Mike October 4-26. The Isaa Kurphy Memorial Art Garden and the Kentucky Horse Park Museum provide an understanding of the vast contributions of African Americanis metalalishing horse racing in Kentucky. But we are more than just horses: Loxington also has natural areas nearby, including McConnell Springs, Reven Run Natures Sanctuary, and Rohardff Nature Sanctuary, You can also take advantage of pre-conference workshops and field trips or participate in an earby moring coffee walk for a unique optomating to explore the natural and cultural history of the such as the Riner Grege. Cummertaind Falls, or Mammoth Cave National Park.

such as Red River Gorge, Cumberland Falls, or Mammoth Cave National Park. Join us Thursday moning for a velocime from Helen Danser, chair of the Kentucky Native American Heritage Commission, to learn about the history of this region, which once served as the home for the Cherkee, Shawner, Chickasaw, and Yuchi peoples. You will find some excellent restaurant and brewery options within walking distance of the convention center-And you'l certainly wint to top at one of the distillentes along the Kentucky Bourbon Trail and learn about the bourbon-making process that plays such a rich role in Ken-tucky's history and economy.

tudys history and economy. We hope you fead as de firsthand the passion and dedication our educators hring to the field Kentudy is proud not only to have a strong Affiliate organization (AEE) but also to have a state agency dedicated cenvinomental education (the Kentudy Environmental Educator Centrification, an environmental education endowsment program for formal educators, and an Environmental Education Leadership Corps.

educators, and an Environmental Education Leadership Lorps. The work of KAEE and KEEC has been augmented by murrerous other groups such as Lexingtors's Environmental Commission, which has since 1969 provided its citizens with environmental education and many opportunities for engagement in community activities. All of our universities are deeply committed to environmental education. Beres College has been *Educating for optist and strategined Reture* since its founding in 1555 when it became the first college in the South to admit women and African Americans while being devoted to envi-ronmental stewards), We are provident that all across our boastiful state, environmental educa-tion is recognized and supported broadly as a vitally important effort.

See pages 129–132 for suggested restaurants and places to visit in and near Lexington.

58

Jim Embry Conference Co-Chair Sustainable Communities Network

Ashley Hoffman Conference Co-Chair Kentucky Association for Environmental Education



ERENCE | LEDINGTON, KY 9

LEX2019

On behalf of the NAAEE board, staff, and conference planning team, welcome to the $48^{\rm TH} Annual NAAEE Conference!$

Wetcome to the +or - Almitain twace Contenentie: Wetching to can be here and hope you enjoy everying the conference and Kentucky have to offer. This year's theme, *Educating for a just and Sastainable Fature*, focuses on the power of education to create positive change leading to a more equilade and sustainable fature. This program is designed to help you navigate the conference and find the workshops, field trips, poster sessions, sympasi, keynotes, and other presentations that best meet your needs and interests. You can also get the NARE 2019 conference app on your mobile device: download the free "ConvOCmaps Attanetedue". see dozens of volunteers wearing bright blue NAAEE t-shirts, who can help answer ons you might have. And if you need anything else, please come to the Registration ir the nearby information Station for assistance.

UAL NAAEE CONFERENCE | LEXINGTON, KY 4

LEX2019

Achieving great things for our community



When a group of people comes along who have the courage and vision to turn dreams into reality, they make the future bright for everyone. We proudly celebrate the achievements of the 2019 NAAEE 30 Under 30 award winners.

wellsfargo.com

Together we'll go fai THE SER THE

erBitD and erBAD Group Meetings 24 Meetings and Gatherings 26 Community Service Project 20 Professional Development Deportunities 28 Professional Development Deportunities 31 Especially for Young Professional 31 Especially for Young Professional 34 Call Water H ₀ Challenge 33 Call Water H ₀ Challenge 34 Call Water 34 Water 34 Call Water 35 Call Water 35		LEX	
 theduk na Glainee the duk na Glainee optiernice Sprosons Potour NAREE Dobur NAREE Potour NAREE Potour NAREE Potour NAREE Conference Stands Season Rey Bestand Season Rey Bestand Season Rey Bestand Season Rey Conference Stands Season Rey Bestand Rey Conference Sendorships Conference Sendorships Conference Sendorships Bestand Rey Conference Sendorships Bestand Rey <l< th=""><th>Table of Contents</th><th></th><th></th></l<>	Table of Contents		
onference Sponsors (% 2017) December 2017 (% 2017) Registrations & Checkin and Information Station (% 2017) Registrations & Checkin and Information Station (% 2017) Registrations & Checkin and Information Station (% 2017) Registrations & Seators (% 2017) Registrations & Registrations (% 2017) Registrations (% 20			2
bour NARE 12 Present Balts 12 Present Direction & Chorner Constraints & Season Rey 16 Conference Stands & Season Rey 18 Separation & Chorner Constraints & Season Rey 18 Exercising Opportunities 19 etworking Opportunities 21 Constraints & Constraints 29 Constraints 20 Presson Directorer Constraints 30 Presson Depresent Constraints 31 Conference Scholarships 34 Conference Scholarships 35 Conference Scholarships 36 Conference Scholarships 30 Special Durker So 30 Special Presence Committees 40 Conference Scholarships 30 Special Events 30 Special Species 40 Velocities from the Kinickly Nalive Amerisca Interinge Commission			
onference Basics Performance Performanc			
Registration & Check in and Information Station 16 Contract Information 16 Contract Information 18 Session Forma 18 Very Sessions of Interest 19 Very Sessions of Interest 20 Community Service Project 27 Community Service Project 20 Professional Devolvement Opportunities 31 Professional Devolvement Opportunities 35 Coll Water HQ Colleage 35 Coll Water HQ Colleage 35 Coll Water HQ Colleage 35 Coll Water HQ Colleages 36 Desired Section 47 Bounds Section 47 Bounds For Man and Postor Section 47 Metal Development Opportunities 47 Bounds For Man and Postor Section 47 Metal Development Opportunities 47 Bounds Ne Bounds All All All All All All All All All Al			14
Grineria Information 16 Conference Sensition Mits Session Network 18 Research Springer 19 Finding Session Direrest 19 Finding Session Direrest 19 Finding Session Direrest 27 Session Direrest 27 Session Direrest 28 AME Direct Project 27 Session Directs 30 Prostage Directs 30 Reside and the Artillates 30 Prostage Directs 31 Tank You Conference Committes 32 Community Service Project 35 Ut Innovation Exclarability 35 Ut Innovation Exclarability 35 Ut Innovation Exclarability 35 Direct Sensition Mit Proton Sensition 36 Direct Sensition All Proton Sensition 36 Direct Sensition Mit Proton and Proton Sension 46 Direct Sensition All Proton and Proton Sension 47 Burbon K Burbon and Proton Sension 47 Burbon K Burbon and Direct Sension and Acution 48 An		on Station	16
Conference Strands & Seador Key 18 Resert & Symptomum 18 Princing Semits 19 Princing Semits 19 Princing Semits 19 Very Semits 24 Koring an Schlor Group Meerings 24 Koring an Schlor Frage 27 Versite Statute Transmitter 28 MARE and the Affiliats 20 Versite Statute Conference 28 MARE and the Affiliats 20 Versite Statute Conference Some Statute 21 Termer and Supporters 25 UL Imovation Education Average 35 E 20 Lock - 20 Allerings 35 E 20 Lock - 20 Allerings 35 E 20 Lock - 20 Allerings 46 Opening Receiption with Edubtis, Share Fair, and Authord Corner 47 Petal Edubtis 47 Meet Discretaring Commission 47 Meet Discretaring Conference Company 40 Opening Receiption with Edubtis, Share Fair, and Authord Corner 47 Meet Discretaring Conference Company 47 <td< td=""><td></td><td>on Station</td><td></td></td<>		on Station	
Reserved, Symposium 18 Session Formits 19 Winding Session of International Control of Session Formits 19 Winding Session of International Control of Session Formits 26 Community Service Project 27 Community Service Project 28 Massion Session Formits 20 Professional Development Opportunities 20 Professional Development Componentiation 20 Conference Scholarships 20 Conference Scholarships 30 Professional Development Componentiation 31 Conference Scholarships 30 Conference Scholarships 30 Opening Research in Drafes, Share Fair, and Autors' Corner 39 Opening Research in Drafes, Share Fair, and Autors' Corner 40 Drafe Research Mark Naive American Ferinage Commession 47 Bourbork Size Fair 40 Welcome from the Kentacky Naive American Ferinage Commession 47 Bourbork Size Fair 47 Bourbork Size Fair 47 Bourbork Size Fair 47 Bourbork Size Fair			
Finding Sessions of Interest 19 erkND and eRNO Groups Verthings 26 erkND and eRNO Groups Verthings 26 Groups Verthings Verthings 28 by Order and in Arrow Project 28 Delta and in Arrow Project 28 Delta and in Arrow Project 28 Delta and in Arrow Project 28 Tarter and Supports 28 Tarter and Supports 35 Ego Lock 20 36 Opening Receptor Werther 35 CLI Water 16, O Lollenge 35 Decide Stati Mark 20, State Stati Arrow Statis 36 Deparing Reception with Enhibits, Share Fair, and Authors' Corner 36 Opening Ceremony 47 Mark 10, Collenge 47 Debtici Fair Luncheon and Poster Sciention 47 Hibit Biointeractive Rim Scienting Commission 47 Hibit Biointeractive Rim Scienting Call 47 Mark 10, Corner on All Octor Scienting 48 Wards Luncheon and Poster Scienting 47 Mark 10, Corner on All Octor Scienting 48 Marut 10, L			18
eteroRiting Opportunities 24 eventing and Catherings 24 decing and Catherings 26 MAEE and the Affiliates 30 fordissional Decomence Committees 31 Conterions. Scholarships 35 Conterions. Scholarships 35 Conterions. Scholarships 36 Conterions. Scholarships 36 Diators 10 37 Sprint Speakers 40 Opening Ceremony 46 Velocine from the Kenuckly Naive American Heringa Commission 47 Bouthors All Preventing Celevation and Acution 48 Velocine and Docer Seison 47 Bouthors All Preventing Celevation and Acution 48 Velocine and Docer Seison 47 Bouthors All Preventing Celevation and Acution 48 Monday	Session Formats		19
erBitD and erBAD Group Meetings 24 Meetings and Gatherings 26 Community Service Project 20 Professional Development Deportunities 28 Professional Development Deportunities 31 Especially for Young Professional 31 Especially for Young Professional 34 Call Water H ₀ Challenge 33 Call Water H ₀ Challenge 34 Call Water 34 Water 34 Call Water 35 Call Water 35	Finding Sessions of Interest		19
Meetings and Gatherings " Meetings and Gatherings " Meetings and Gatherings " Meetings and Gatherings " Meetings and the Artillaises and Arti	Vetworking Opportunities		
Community Service Project 27 ex801 at the Conference 28 ex801 at the Conference 28 build: and the Affiliants 30 Execution of the Affiliants 31 Expendity for Young Portessionshis 31 Expendity for Young Portessionshis 31 Expendity for Young Portessionshis 32 Expendity for Young Portessionshis 35 Coll Wines (-) Constrains 35 Dynning Specialism Affin Affinities 36 Opening Specialism Affin Affinities (Share Fair, and Authord Corner 45 Opening Specialism Affin Affinities (Share Fair, and Authord Corner 45 Opening Specialism Affin Affanities (Share Fair, and Authord Corner 46 Depring Specialism Affin Affanities (Share Fair, and Authord Corner 47 Bourbon & Reve 47 Bourbon and Breve Scelant 40 Authord Fair (Langtonn and Autong Corner 48 Authord Stere 47 Bourbon & Reve 47 Bourbon & Reve 47 Authord Fair (Langtonn and Date) 48 Bourbon & Reve <t< td=""><td></td><td></td><td></td></t<>			
eiss0 at the Conference " eiss0 at the Conference " eiss0 at the Conference " eiss0 at the Conference Constraints" eiss0 at the Conference Constraints" eiss0 at the Conference Constraints eiss0 at the Conferenc			
NAEE and the ATILiates 30 Professional Development Opportunisies 31 Equically for Young Professionals 32 Conference Committees 4 Conference Scholarships 35 Conference Scholarships 35 Conference Scholarships 36 Conference Scholarships 39 Sprint Speakers 39 Sprint Speakers 39 Sprint Speakers 30 Pointing Control To Wark (A) Collering 35 Conference Scholarships 30 Sprint Speakers 30 Opening Content Mit Dibblips, Share Fair, and Autors' Corner 50 Doming Contents 47 Doming Content and Poster Serian 47 Doming Content and Coster Serian 47 Monday 52 Tuesday 47 Domine Area and Coster Serian 47			
Professional Development Diagnorminis 31 Especially for Varge Professional 3 Especially for Varge Professional 3 Especially for Varge Professional 3 Especial Varge Professional 3 Especial Varge Professional 3 Especial Professional 3 Especial Professional 3 Opening Ceremony National American Mentage Commission 4 Popening Reception with Diblishis, Share Fair, and Authors' Corner 4 Opening Reception with Diblishis, Share Fair, and Authors' Corner 4 Opening Reception with Diblishis, Share Fair, and Authors' Corner 4 Opening Reception with Diblishis, Share Fair, and Authors' Corner 4 Opening Reception with Diblishis, Share American Mentage Commission 47 Welcome Brom the Kentucky Justice American 4 Welcome Brom Brow Reversion 4 Autous Brow Reversion 4 Autous Diblishishishis Charlen 4 Autous Distribution 4 Aut			
Epse calary for Young Professionals 32 Transit Not Configures Constitutes 33 Thank You Configures Constitutes 35 Cal Water H, Collenge 36 Depending Reception with Enhibits, Share Fair, and Authors' Corner 36 Opening Reception with Enhibits, Share Fair, and Authors' Corner 46 Debitit Fair Lunchon and Poster Seison 47 Hottl Estimation and Poster Seison 41 Wards Lunchown and Boster Generation and Auction 48 Mathematic Elevation and Auction 41 Monday 50 Humany 50 Humany 50 Kinger Seison 41 Stards/ 13 Act Estima Seison Seison			
artners and Supporters artners and Supporters artners and Supporters artners Sindlarships conference Somittees artners artners and Supporters artners		ties	
Thank You Conference Committees 34 Conference Schollardige 35 Call Water H/D Challengie 35 E Bollonder 100 35 E Bollonder 100 35 E Bollonder 100 36 Berning Reception Munitory 40 Depending Reception Munitory 40 Berning Reception Munitory 46 Weldmain Eroft Netracky Nature American Heritage Commission 46 Dothering Schollardige 47 HMMI Biotherizative Rind Schollardige Commission 47 HMMI Biotherizative Rind Schollardige Commission 47 Auking Schollardige Rand 47 Auking Schollardige Rand 50 Auking Schollardige Rand 50 Auking Schollardige Rand 50 Munitory Scholardige Rand 50 <			32
Conference Scholarships 35 Call Water HQ, Olaflerge 35 De Entrobatin Scholarships 39 Start Scholarships 39 Opening Breakers 40 Opening Stepakers 47 Ope			
Call Varer HJO Challenge 35 Ef BU Linnovation Education Awards 35 Ef BU Linnovation Education Awards 39 Bernst 39 Opening Ceremony 45 Opening Reception with Dibibits, Share Fair, and Authors' Corner 45 Opening Ceremony 46 Welcome From the Kentucky Natuse American Heritage Commission 47 Burbors Brew 47 Burbors Brew 47 Burbors Brew 47 Antholis Celebration 40 Activity Burbor and Burbor Celebration and Auction 40 Activity Burbor and Burbor Celebration and Auction 40 Activity Ceremony 45 Monday 50 Thursday 50 Friday 50 Staurday 50 Staurday 50 Staurday 50 Munday Additionand Activity Council 50 Mark Addition And Activity Council 133 Adde Additionand Advelop Council 133 Adde Additionand Advelop Council 133			
UL Innovation Education Awards 35 EE 20 Linker 39 Secal Events 30 Opening Reception with Exhibits, Share Fair, and Authors' Corner 40 Opening Ceremony 40 Julies American Heritage Commission 46 Exhibit Fair Lunchon and Poster Sestion 47 Prihl Biointeractive Hin Screening 47 Hill Biointeractive Hin Screening 47 Heritud Social 40 Kentudy Dau/Don and Blues Celebration and Auction 48 Awards Lunchona and Coster ghand 50 A Libity in Lunkyton 40 Celebration and Auction 48 Awards Lunchona and Coster ghand 50 A Libity in Lunkyton 40 Kentudy Dau/Don and Blues Celebration and Auction 48 Awards Lunchona and Coster ghand 50 A Libity in Lunkyton 40 Social 40 Autor Blues 10 Autor 10 Heritagi 40 Heritagi 40 He			
Et 30 Under 30 39 sprend Speakers 40 sprend Speakers 45 oppening Centremy 46 Doppening Centremy 46 Doppening Centremy 46 Dothicit Fair Underson and Poster Sersion 47 Bourbon Rim The Kenuckly Nater American Herinage Commission 47 Bourbon Rim The New Centremy 46 Verkome and Doster Sersion 47 Bourbon Rim Centreman College Paint 47 Bourbon and Doster Celebration and Auction 48 Avainstis Landhona and Coster Paint 40 Monday 51 Tuesday 56 Thursday 56 Finday 58 Standay 58 Standay 58 Monday 56 Finday 58 Standay 58 Monday 58 Monday 58 Marker Standard Action (Science) 58 Marker Standard Action (Science) 58 Marker Standard Action (Science) 51 Marker Standay 58 Marker Standard Action (Science) 51 Act Millard Rosard, and Action (Science) 51 Marker Millare News (Council (Science) 53			
oprote Speakers" 40 period Speakers" 40 period Speakers ************************************			
secal Devises. Jopaning Reception with Exhibits, Share Fair, and Authors' Corner Deparing Reception with Exhibits, Share Fair, and Authors' Corner Deparing Reception with Exhibits, Share Fair, and Authors' Corner Medican Corner and Poster Session 47 Hitti Bunteractive Film Screening 47 Hitti Bunteractive Film Screening 47 Kentucky Bourbon and Blues Celebration and Auction 48 Awards Lunchean and Celebration and Auction 48 Awards Lunchean and Celebration and Auction 51 and Celebration 15 Status 17 Tuesday 49 Finday 99 Finday 99 Finday 99 Finday 99 Finday 99 Status 99 Finday 99 Status 99 Finday 99 Status 99 Sta			
Opening Reception with Diblishis, Share Fair, and Authors' Corner 45 Opening Ceremon Way, Natare America, Heritage Commission 46 Welcome Irom the Kentucky Natare American Heritage Commission 47 Horn Born Steries Plants Center and Authors' Conner 47 Bourbon & Rev 47 Bourbon & Rev 47 Bourbon & Rev 40 Architecky Bourbon and Bues Celebration and Auction 40 Architecky Bourbon and Bues Celebration and Auction 40 Arclessure Into anglines Celebration and Auction 40 Arclessure Into anglines Celebration and Auction 50 Thursday 52 Friday 58 Staurday 59 Shaurday 59 Mark Staurd Advelops Council 13 Arke E Millare Nervork 134			40
Opening Ceremony 46 Welknome Kronk Hestnicky Native American Heritage Commission 46 Exhibit Fair Lurcheon and Poster Session 47 Hinhit Buojnace Mini Sciencing 47 Hundring Minister Mini Sciencing 47 Bourbork Stew 47 Bourbork Stew 47 Awards Luncheon and Doling Celebration and Auction 48 Avards Luncheon and Casing Panel 50 At Lebure In Langton 51 Turusday 55 Welndeday 56 Friday 56 Friday 59 Welndeday 52 Friday 59 Artes and Advelop Council 131 Adde E Millare Nework 134		a Eair, and Authors' Corner	45
Welcome from the Kenucky Naive American Herinage Commission 46 Exhibit Fair Lundon and Poster Serion 47 Heritit Glaimerature Hint Servering 47 House Series Fair Servering 47 Marking Servering 48 Awards Landmongton 51 Monday 55 Monday 55 Stauday 56 Marking Servering 56 Marking Servering 56 Marking Servering 58 Stauday 58 Stauday 58 Mark Servering Marking Servering 53		e Pair, and Additions Corrier	
Exbiting fail Luncheon and Doctor Session 47 Hint Biointeractive Rind Screening 47 Hint Biointeractive Rind Screening 47 Hint Biointeractive Rind Screening 47 Aurants Scotal 47 Avards Luncheon and Clasing Panel 50 At Leisure In Learging International Scotal 55 Turesday 55 Wedneday 56 Fluctady 58 Vedneday 58 English Control Planes to Ext, Flaces to Visiti 123 A KE Millare Nework 133		merican Heritage Commission	
HHM Biomeractive Him Screening. 47 eeBLUE Social 47 Bourbon & Brew 47 Kennucky Bourbon and Dialise Celebration and Auction 48 Awards Standbard 50 Jay Scheduler 50 Monday 55 Turasday 56 Thinsday 68 Weith ready 56 Finanday 69 Monday 59 Vectineday 50 Mark Scheduler 50 Monday 56 Thursday 62 Weith ready 50 Aker Alfault Ready, and Advisory Coundi 124 AKE Staffilter Ready, and Advisory Coundi 133 AKE Alfault Reversion (134) 133			
entitlet Social 47 Bourbon & Birres 47 Bourbon & Birres 47 Remucky Bourbon and Buest delexation and Auction 48 At Letsure In Location Size (Pred) 60 At Letsure In Location Size (Pred) 50 Wordny 55 Friday 58 Staurday 58 Staurday 58 Attent Backt, and Adeksory Council 13 Adde E Million E Horok, Council 133 Adde E Million E Horok, Council 133			
Kentucky Bourbon and Blues Celebration and Auction 48 Avards Lunchwain and Cesing Brand 50 Ab Library in Learlington 51 March Lunchwain and Cesing Brand 50 Monday 55 Tuesday 56 What Support 52 Findady 52 Findady 52 Stauddy 19 Stauddy 19 Akt E Mariat Roand, and Arekeory Council 133 Akt E Afflitter Nerwick 134			
Avards Suncheon and Cosing Panel 50 At Lessure In Lessington 51 Alt Schware In Lessington 55 Wednedalet 55 Thursday 56 Findary 59 Findary 52 Findary 52 Avards Schward Schward 52 Findary 52 Avards Schward S	Bourbon & Brew		47
At Leisore In Losington 51 Monday 55 Tuesday 55 Tuesday 56 Tunnsday 56 Strington 56 Strington 56 Strington 56 Strington 56 Strington 58 Strington 19 Units Advection (Science) 19 AREE Staff, Board, and Advectory Council 133 AREE Milling Newrok 134		ion and Auction	48
ally Schedules - Wonday S5 Tuesday S6 Thursday S6 Thursday S6 Thursday S6 Shurday S6 Shurday S6 Andre Sand AcAbory Council 19 MAE Sand AcAbory Council 13 ARE Affilize Nervork 134	Awards Luncheon and Closing Panel		50
Monday 55 Tuesday 55 Tuesday 56 Thursday 69 Saurday 19 Candidation 19 American Advisory Council 133 AREE SMIR Baard, and Advisory Council 134			51
Tuesday 55 Wednesday 56 Thursday 62 Finday 98 Saturday 19 Unity Around Town (Places to Eat, Places to Visit) 129 VAREE Satil, Board, and Advisory Council 133 AREE Affiliate Nework 134	Daily Schedules		
Wednickday 56 Thursday 62 Friday 93 Briday 19 Briday 19 Briday 19 Briday 19 Attes start Beand, and Arbisony Council 133 Atte Start Reshrink, and Arbisony Council 134			
Thursday 62 Friday 98 Saturday 119 Saturday 129 AREE Staff, Board, and Akksory Council 123 AREE Affiliate Nework 134			
Friday 98 Saturday 119 Saturday 119 etting Around Town (Places to Eat, Places to Visit) 129 AAEE Staffild, Board, and Advisory Countil 133 AAEE Affiliate Network 134			
Saturday 119 etting Around Town (Places to Eat, Places to Visit) 129 AAEE Staff, Board, and Advisory Council 133 AAEE Affiliate Network 134			
etting Around Town (Places to Eat, Places to Visit) 129 AAEE Staff, Board, and Advisory Council 133 AAEE Affiliate Network 134			
AAEE Staff, Board, and Advisory Council 133 AAEE Affiliate Network 134			
AAEE Affiliate Network 134	setting Around Town (Places to Eat, Places	to visit)	
	MALE Start, Board, and Advisory Council		
	019 Exhibitors		135
	exington Convention Maps Ivatt Regency Lexington Maps		136



00800

There has neve been agreater need reinformental education—or a greater opportunity. The world is facing unprecedented environmental social, and economic challenges—from a changing clinate and loss of species and habitats to decreasing access to nature, the unequal administration of expected and the second second second second social system and the second second second second second social system and the second second second second second motivate and committee clinatery. Informance satisfies inspires, and englightens. It builds human capacity, influences attitudes, inspires, and englightens. It builds human capacity, influences attitudes, and can lead to action. And most importantly, i can help people make informed decisions about the environment that lead to informed second the second second second second.

ALE CONFERENCE | LEXINGTON, KY 12

🐚 naaee



NCE LEQN

20,000+ STATE AND REGIONAL AFFILIATES ND SUPPORTERS

iday, as we build on this foundation, NAAEE looks nward to stimulating new thinking and building new irtnerships that will best meet the environmental and icial challenges of the next decade.

Driving Excellence and Innovation

EE Resources: NAAEE's Guidelines for Excellence series is the most widely accepted standard for effective practice in environmental education around the globe. NAAEE's website, industing eePRO, is a hub for resources and networking for environmental education professionals around the world.

Interview of the "environmental equation processional around the wold. And are soving together to environmental and stantice function arrong the environmental and stantice function arrong to compare and the environmental and stantice function collaborating with NOAN to administer at Watershed STML distantion Partnershort programming timo 21st distantion partnershort programming timo 2 to integrate high-quality STML programming timo 2 Research and Practice: Through enVORS, NARE and Century Community cannot the distantice and the distantice of Ea and helps transfer environments the impact of Ea and helps transfer environments the impact.

ing in Leadership EE 30 Under 30: Each year, NAAEE awards 30 high-potential leaders under 30 years of age who are creating change in their communities using EE. We provide professional development and networking to build their capacity as leaders in our field.

capacity as readers in four nerv. Broadening the Conversation: NAAEE, through a cooperative agreement with US EPA and seven partner organizations, is leading an ambitious fiveyare initiativ called ee360 to support a diverse cadre of environment education leaders who are better prepared to increase environmental literacy and advance civic ergagement.

30+

COUNTRIES

naaee.org

ENCE | LEQNGTON, KY 13

Cultivating Collaboration Annual Conference: NARE has convened an annua conference for environmental education professiona since 1972. Averaging more than 1,000 participants each year, the event is designed to promote innovati networking, and learning. Seturations, and learning. Early Childhood environmental devication In 2013, NAAEE lauchted dhe Natarual Starr Allianne—in collation of educators, parents, and organizations focused on linking early childhood education with EE to connect young children with nature and enhance opportunities for creative Jely and learning. Global Environmental Education Partnership: In partnership with US EPA and the Taiwan Environmental Protection Ammunetation, NAAEE is creating vibrante environmental educators and the world.

🐚 naaee

Serving as a Champion

EE Advocacy: Since its inception, NAAEE has helped lead policy and outreach efforts in North America. NAAEE highlights key opportunities to get involved in strengthening public support for environmental



education. **Civic Engagement:** NAAEE collaborates with the civic engagement education community to strengthen leadership and support initiatives that will advance our collective work to build a more engaged and environmentally literate citizenry.

Connect with NAAEE today and join us in creating a more sustainable future together



2020 OCEAN AWARENESS CONTEST

Climate Hope: Transforming Crisis Visit bowseat.org/contest for details, classroom resources, and to submit

JAL NAAEE CONFERENCE | LEMINGTON, KY 14



INCE | LEXINGTON, KY 15

Conference Strands

Six cutting-edge thematic strands characterize this year's conference: $\bullet \bullet \bullet \bullet \bullet \bullet$

Building Leadership for Environmental Literacy Strategies for building leadership and infrastructure to further EE on the state and provincial levels, and for advancing efforts to motivate the public to take inform actions on environmental and other civic issues Strand Leader: Dave Chase, DRC Consulting, LLC

Connecting with Nature Cultivating partnerships and providing universally accessible outdoor education experiences that connect people of all ages and backgrounds to nature Strand Leader : Jean Kayira, Antio

su and Leader: Jean Kayira, Antioch University New E Conservation and Environmental Education Achieving conservation goals through education, communication, social marketing, and ecotourism strategies, inducing public participation in scientific research and place-based community action Strand Leader: Michelle Eckman, Connecticut Audub Society

Society Educating for Sustainable Communities Creating sustainable, equitable, and resilient communities through partnership building, informed rive engagement and personal decision maing, systems thinking, connecting community and environment, and understanding historical impacts on communities of color Strand Leader Lea Frankel-Goldwater, University of Colorado-Boulder

Cobrado-Boulder Green Schooks and Preparing for 21st Century Carcers Using environmental education to transform education, enhance students chievement, conserve resources, prepare students for green carcers, support national and international education trends, link schools and communities, and build support for environmental education in formal education Strand Leader: Jennifer Ortega, Humboldt State University

Linking Research and Practice to Increase Impact Uinking Research and Practice to Increase Impact Using research to inform how we design, develop, refine, and promote environmental education programs for maximum effectiveness, and using practice to inform research Strand Leaders: Justin Hougham, University of Wisconsin-Extension and Steve Kerlin, Stroud Water Research Center



16th Annual Research

16th Annual Research Symposium NARE's annual Research Symposium the applice the comment of the symposium of the comment of the second symposium directions of event the and future research and to advance the use of practices prover to be effective. Join new and experienced researchers from and traditional areas of environmental education research.

education research. This year's research symposium contribu-to advancing EE towards a just and sustainable fruiture through a dual focus on discussing research processes and impacts. In addition to dozens of poster presentations sharing completed or improgress research projects, a range of panels, roundtable discussions, and properches on how we do EE research, and to what ends.

Chair: Marcia McKenzie, University of Saskatchewan Co-Chair: Olivia Aguilar, Denison Unive

STOTHE GRAY FAMILY MATION, SPONSOR OF REINS LEADERSHIP INFORMENTAL LITERACY FOUNDATION THE BUILDING FOR ENVIRON STRAND.

🐚 naaee

Conference Basics

	Registrat	tion & Check-In Hours
	Monday Tuesday Wednesday Thursday Friday Saturday	1:00 PM-2:30 PM; 5:00 PM-7:00 PM 7:30 AM-10:30 AM; 5:00 PM-6:30 PM 7:00 AM-10:30 AM; 12:00 PM-6:30 PM 7:30 AM-10:30 AM; 1:30 PM-6:00 PM 7:30 AM-10:30 AM; 1:30 PM-4:00 PM 8:00 AM-10:30 AM
	Location:	Thoroughbred Bridge
Information Station		
		7:30 AM-1:30 PM 7:00 AM-6:30 PM 8:00 AM-6:30 PM 7:30 AM-6:00 PM 10:00 AM-12:30 PM
	Have questions about the conference? Want to sign up for the Community Service Project or Fundraising Roundtables? Volunteers are here to help. The Information Station is located near the registration counters on the Thoroughbred Brid	

General Information

Accessibility Assistance NAEE strives to make our conference accessible to all attendees; please request accommodations at the registration desk or ask any staff member for assistance.

Auction Items Please bring auction items to the Bluegrass Lobby, where volunteers will be ready to accept your donation. (If the office is not open, please leave donations at the information Station). Bidding on slent auction items begins during the Bluegrass Lobby. The live auction will be held and Pickly evening, Some sections of the silent auction does Thrustay.

Note final subj. New this yeart Bid anywhere anytime! Silent auction bidding will be online, so you can raise your bid wherever you are! Sign up at 32auctions.com/ NAAEEAuction2019. No mobile device? Volunteers at the auction tables can assist with online bidding.

NCE LEGINGTON, KY 16

Audio-Visual Equipment Problems If presenters experience audio-visual issues during sessions, ask the volunteer room monitor to report it to any staff member or the Information Station for help connecting with our audio-visual experts.

help connecting with our audio-visual experts. We have a limited number of lip charts available by advance request. We will try to accommodate special audio-visual requests, bug guarantee only the computer, LCD projector, and wireless internet access provided in all meting rooms. Please put PowerPoint presentations on a portable LVB drive and use the equipment provided we cannot guaratee availability visual needs must be made at the Information Station by 500 Mt here enring before moming sessions, and by 10:30 AM on the day of for afternoon sessions.

Authors' Corner Authors will be available to sign and sell books during the opening reception on Wednesday. See page 45 for more information.

Coffee Breaks There will be 30-minute coffee breaks at 10:00 AM, Thursday through Saturday, in Bluegrass Ballroom 1.

Inursay impogn saturasy, in stuegrass Bairoom 1. Community Service Project Each year, INASE participates in a Community Service Project to give back to our host community. This year, we like helping to plant trees at Isaac. Murphy Memorial Art Garden as part of Lexington's Tree Week. See page 27 for details, and sign up to volunteer at the Information Station.

Conference Buildenian Statubut, Conference Buildenian If you're new to the conference and signed up through registration for a conference buddy, or if you're an esperienced conference-goer and voluntered to serve as a buddy, please meet your partner immediately after the conference orientation on Wednesday at 5:15 PM in Throroughbred 4 to set a meeting time and head to the opening reception.

Exhibit Fair Wednesday 5:00 PM-6:30 PM Thursday 9:00 AM-5:00 PM Friday 9:00 AM-2:30 PM See page 135 for a list of exhibitors.

Bow Seat's

See page to the field Trips If you are registered for a field trip on Wednesday, meet your vasa the High Strete Rotunda entrance to the convention center. Please arrive 15 minutes before departure times, which are listed on page 58.

departure times, which are never jobs and Resumes You can upload you resume, build your eePROfile, search for jobs, or post job listings in eePRO, NAAES online huh for professional development in EE, Visit NAAES exhibit in the Bluegrass. Lobby for more information or a demonstration.

Lunch on the Go Grab-and-go concessions will be available in the Bluegrass Lobby on Friday from 12:30 PM to 2:00 PM.

Mobile App Our conference mobile app allows you to search the conference program, build your own schedule, network with other attendees, and more. Download "CrowdCompass AttendeeHUP" from your app store and then search for "NAAEE" Need support? Ask at the Information Station.

59

Description and Ceremony Wednesday. Soo PM-830 PM. Includes hors of beovress, exhibits, Share Fair, Authors Correr, and John Ficker's keypote. Add by Sunday 11:30 AM. Exhibit Fair Luncheon, Thursday, 12:30 PM-21:59 PM. Includes as the Affiliate Wedcome. Bordero Beilger Calbraction and Stano Artices.

Add by Monday 11:30 AM. Bourbon & Blues Celebration and Stapp Auction, Friday, 7:00 PM-9:30 PM. Includes substantial hors d'oeuvres, a blues band and dancing, Derby-themed activities, and our annual live auction. Add by Tuesday at 11:30 AM.

Adu by ruesday at 11-30 AW. Awards Luncheon and Closing Plenary, Saturday, 12:00 PM-2:30 PM. Includes luncheon, awards ceremony, and the inspiring EE 30 Under 30 plenary panel. Add by Wednesday at 11:30 AM. Purchase guest tickets at the Registration Desk.

Nursing Mothers The Thoroughbred Show Office (near Thoroughbred 3) is available for nursing mothers. There is a refrigerator in the room. Volunteer Check-In The Volunteer Office is in Thoroughbred 6. Registered volunteers should check in at the office 15 minutes prior to the start of their shifts.

Continuing Education Hours (CEHs) NARE has pantered with the University of Wisconsin-Stevens Point (UWSP) to offer CEHs for attending the Annual Conference and Research Symposium. Participants can receive education hours by completing an application form that verifies session attendance and submitting the form, along with a 30 processin fee, to UWSP Continuing Education and Outreach. You can jick up an application form at the information Station. Ten contact hours of Uctreach.

Continuing Education and Outreach

Follow @TheNAAEE on social media! Follow us on Facebook to stay connected to #NAAEE2019 trends and events! Follow @TheNAAEE on Instagram for NAAEE2019 photos and videosl Access our conference mobile app via your app store: Download "CrowdCompass AttendeeHub" and search for "NAAEE".







Concurrent Session Formats

Conference participants will see a wide variety of session types listed in the conference program. The different formats help us maximize the diversity and number of presenters. Session formats vary in length and degree of depth and interaction.

d' degree of depth and interaction.
orkshop (full or half day)
orkshops rei in-depth sessions that actively
velop specific professional competencies and have
despread potential for implementation. Workshops
e scheduled on Wednesday, prior to the formal start
the conference. Onsite registration is accepted as
ace allows; fees apply.

Symposium (CC dipy): Symposia are panel discussions presenting different perspectives on a topic or question related to one of the focus points for each strand. Panels generally include at least three panelists and a moderator.

Include at least time parentss and a moderator. Hands-on resentation (90 minutes) Hands-on sessions provide participants with an opportunity to engage in taching activities and interactive discussions about a particular topic. Traditional presentation (40 minutes) Traditional presentations focus on a single topic or program, typically including a talk or media presentation followed by a short discussion.

resentation followed by a short discussion. Roundtable Discussions emphasize spirited discussion between the presenter(s) and session attendees. resenters briefly introduce the baseline question hey wish to explore, and then open the discussion or input and exchange of Ideas. Multiple roundtable discussions occur simultaneously in one large room.

Society Presentation (40 minutes) Society are two-dimensional printed presentations literating research studies, programs, or other work. Society are fixed to bulletin boards for conference anticipants for weive at lesizer. In addition, all anticipants or weive with elsizer. In addition, all presenters will be available during the Exhibit Fair unchenon on Thursday to share their posters, answer fuestions, and interact with attendees.

A constraint of particular in
 A constrain

I bright spots are pre D-minute time block. ENCE LEANGTON, KY 19

Finding Sessions of Interest

Equity and Inclusion Capital and Inclusion concurrent sessions within each strand to advancing equity and inclusion in EE. These sessions explore ways to strengthen our field through strategies and programs that, among others, help diversify our audiences as well as our workforce, build cultural competences, support environmental Justice, engage with new audiences, lorge new and lasting partnerships, howor traditional howeledge, and increase our reach and relevance throughout sockey. Sessions marked with this (on how been identified)

Increase our reach and relevance throughout society. Sessions marked with this icon have been identified using criteria developed by a team from NAAEEs Equity and Industion eeRr0 group as helping to meet this goal. NAAEE has planned several sessions specifically targeted to the needs of those who are in the early stages of their career. These include a skill-building (linic, presentations by NAAEES EE 30 professionals as identified by their presenters. Sessions marked with this icon are suggested for early-career professionals. See page 32 for

Affiliate Network

(c) Annuate Network Sessions marked with this icon are offered by and for leaders and members of the state and provincial organizations that comprise the NAAEE Affiliate Network. See page 30 for more information. Gerado Partners
 Sessions marked with this icon are offered by NAAEE and our partner organizations in the ee350 initiative, a cooperative agreement between NAAEE and US EPA. See page 28 for more information.

See page 29 to https://www.initiality.com/ Keywords In addition, search on these tags in the mobile app to find sessions of particular interest in these areas. Arts y huiding Arts y huiding Capacity school program Common Section Anowledge Underserved audiences



48** ANNUAL NAAEE CONFERENCE | LEXINGTON, KY 20

HHMI MOVIE NIGHT AT NAAEE OUR GORONGOSA



Academy of Natural Resources N 1 For more information visit: michigan.gov/ANR Prescott College Att Center for NATURE & PLACE "Take learning beyond the classroom!" d' l tt's early education teacher preparation programs focus o g educators with the tools they need to nurture children's and wonder. Our hybrid online program allows you to e of Arts or Masters of Education from wherever you call ho Interested? Prescott.edu/NPECE CAN YOU , AZ 86301 • 877-350-2100• prescott.edu Columbia Gas. ARBORMET A NiSource Company "Enhancing our environment" Nutrien **Future Site of Monarch** Waystation FORELL grow with trees* The Bee & Butterfly Habitat Fund

48th ANNUAL NAMEE CONFERENCE | LEGINGTON, KY 22

Advocacy, Policy, and Civic Engagement Thoroughbred 1

Connecting to Nature Heritage Ballroom 3

Data Literacy Heritage Ballroom 2

Early Childhood EE Thoroughbred 4

Equity and Inclusion Heritage Ballroom 1

E-STEM

Global EE Thoroughbred 1

Guidelines for Excellence

Higher Education

CV.

Â

9.12

Join the Discussion: eePRO Groups

part the criter of eePRO's group discussion platform are the 15 eePRO group—special interest groups created by and for our member and supporters. These forums offer the opportunity to discuss important subjects with experts, peers, budding environmenialists, and more. Enthusiastic moderators keep the discussions active, positive, inclusive, and

Informative. Most of the eePRO groups will meet during Friday's lunch break and—whether you're a current member or want to develop new networking opportunities—you are encour, to bring your lunch and join in! You can pic! Jour funch and join in! You can pic! Picagrace I onbut the convention center.

LOCAL CULTURE

Climate Change Education

Conservation and Behavior Ch Heritage Ballroom 3



Networking Opportunities

Stay Connected through eePRO!



2124

Sign up today at naaee.org/eePRO/join-eePRO. **ee**|OBS⇒ eeJOBS: Leading EE Job Listing Service

eenewsa eeNEWS: Latest News from NAAEE and the EE Community

eei Farnm eeLEARN: Online Learning Modules

eeresearch @ eeRESEARCH: Connecting Research and Practice

eeWEBINARS A eeWEBINARS: Bringing New Ideas and I to the Field of EE

eeWorks⊽ eeWORKS: Research R Communication Tools



🖌 naaee



48¹¹ ANNUAL NAAEE CONFERENCE | LEXINGTON, KY 24

r Environmental Educators Network (OEEN) Queer Environmeneur Loucesson Gathering Thursday, 4:50 PM-5:30 PM, Heritage Ballroom 1 Join us for the first-ever gathering of QEEN, the Queer Environmental Educators Network, for LGBTQ+ Heufified educators. Coordinator: Rochelle Gandour-Rood

Coordinator: Rochelle Gandour-Rood Student Conservation Association Alumni Networking Event Thursday, 530 PM-700 PM. HopCat Lexington (410 W. Short Street) Please join SCA Staff and alumni as we gather to share stories from our service experience and professional accomplishment since. Pre-registration through SCA required. Coordinator: Partice Maliza

Coordinator - Narrica Maiza Southeastern Environmental Education Alliance Meeting Friday, 500 PM–600 PM, Regency Ballroom 1 Members of the southeast state Affiliates will meet to discuss current activities and opportunities for collaboration. Member states include Alabama, Florida, Georgia, Kentucky, Mississipi, North Carolina, South Carolina, and Tennessee. Coordinator: ASkey Hoffman

Coordinator: Ashley Holiman University of Michigan School for Environment and Sustainability Gathering Friday, 500 PM-600 PM, Regency Ballroom 3 University of Michigan SEAS alumni are invited to attend a casual happ hour with drinks and light appetizers. This is a great opportunity to connect and catch up with Fellow alumni. Current and prospective students are welcome.



Meet as the heigh Street Rotunda. Beak Murphy Memorial AT Garden Tree Planting Each year, NARE works with a local organization to organize a community service project through which conference participants can give back in a meaningful ways to our host community. This year's conference condides with Lekradino of Lexington's trees and all the ways trees impact our likes. The week celebrates and synthesizes the roles trees play through creative, informative, and fun-filed activities. Including community tree planting: Kenucky tree climbing competition: tree walks: tours and hikes; tree care and tree benefits; trees in at an actuative; and tree' roles in our bodies. Missi As part of Tree Week, project participants will minds, and spirits. As part of Tree Week, project participants will help plant trees at the recently established bas Murphy Memorial AT Garden. The park honors contributions of African-Americans in the horse range industry, housing Base Memory, a three sat on this exact site overlooking the Kenutuby Association Race Tackin Lexingtons Statt End. Considered the greatest jockey of the 19th century, Murphy Jeage (as wells other Africa Nationary March 1994) iggords and the Agnitude Nationary March 19th Statt Spirits Association Race and the African Statt End.

Community Service Project

day, 12:45 PM-2:45 PM insportation and a box lunch provided set at the High Street Rotunda.

There years go, the first signature piece of art, was placed in the art garden, which now needs additional trees to reduce the urban heat island effect by reflecting sunlight and providing shade for visitors, to increase community biodiversity, and to enhance the natural beautification. Participation is limited to the first 20 people to sign up at the Information Station.

on. or: Chris Hutton eeBLUE Social Thursday, S:30 PM-6:45 PM, Patterson E-G join NOAA and NARE for an informal reception highlighting our eeBLUE partnership to advance ocean education and environmental literacy. Enjoy light hors dreuvres and a cash bar. Everyone Welcome. Coordinator: Bronwen Rice ePRO Group Meetings riday, 1:15 PM-2:00 PM

bug lunch see page 25 for groups and locations. Environmental Professionals of Color Annual Meeting enday, 1030 AM-1110 AM, Thoroughbred 4 The Environmental Professionals of Color (EPOC) manual business meeting is open to SPC Contembers and a set of the SPC and the SPC Amount of the SPC and the SPC and the SPC EPOC is a program of the Center for Diversity is the Environment.

Environmental Education Research Editors' Meeti Thursday, 8:30 AM-10:00 AM, Mary Todd Lincoln Working meeting for journal editors. By invitation. Coordinator: Alan Reid



Coordinator: Loft Warm NAREE 2020: Share Your Ideas! Saturday, 10:30 AM-11:10 AM, Mary Todd Lincoln How can we improve on this year? We'd love to hear your thoughts. Come share your ideas and suggestions for our 49th annual conference, scheduled for October 13–17 in Tucson, Arizona. Coordinator: Loft Mann

Coordinator: Lor Mann NARE Business Meeting Saturday, 820 AM-1000 AM, Ekhorn B Join NARE's board ohar, executive director, board members, and staff for a discussion on the current state of the organization and future directions for NARE: Topics will include strategic planning, a financial report, and your questions. We velcome your imput. Coordinators: Charlotte Clark, Judy Braus

60



Meetings & Gatherings

Several eePRO Groups are meeting over a brown bag lunch. See page 25 for groups and locations.

COCAL WILDLIFE The Bluegrass State Rentucky is known as the Bluegrass State. Bluegrass is not really blue—it's green. In the spring bluegrass produces blues fraught blues that when seen in large fields give a blue cast to the grass.

Affiliate Network Dinner Tuesday, 7:00 PM-9:30 PM, HopCat Lexington (410 W. Short Street) Informal networking dinner for Affiliate leaders, pre-registration and payment required. Coordinator: Brenda Metcalf Cal Water H2O Challenge: Leadership Summit Thursday, 8:30 AM–11:00 AM, Mary Todd Lincoln

GEEP Meeting Monday, 8:30 AM-5:30 PM, Thoroughbred 1 By invitation

GEEP Dinner Monday, 7:00 PM, Saul Good Restaurant & Pub (123 N. Broadway) By invitation.

Making the Most of the NAAEE Conference Wednesday, s445 PM-515 PM, Thoroughbred 4 Young professionals and first-line conference participants are welcome to join this brief orientation to the NAAEE conference, including keys to selecting sessions of interest, scheduling, networking opportunities, and more. Coordinator: Lond Mann

ENCE | LEXINGTON, KY 27







ee360 at the Conference

eesso at the contremental educa across North America. NAAEE, through a cooper-agreement with US EPA and seven partner organizations, is leading an ambitious five-year initiative to support a diverse cadre of environm education leaders who are better prepared to increase environmental literacy for everyone in their communities.

Increase environmental intracy for everyone in their communities and their and the set of the environmental literacy, and building a more inclusive movement that we hope will have both short- and long-term impacts. Digether with our partners and ong-term impacts. Digether with our partners and diversify the field of environmental education. ee360 builds on 25 years of US EPA's long-standing communers to append a monor more efforts to development. This effort support in innovative leaders in the environmental education field through leaders in the environme

approaches and best practices. ee360 is powered by collaboration, and we couldn't do this work without the support of our amazing partners and advisors. As we near the end of the third year of this project, we're excited to share what we've collectively learned so far. To learn more about ee369's work, we initely out to participate in one or more of these sessions and visit ee360.org. Look for this symbol marking ee360 sessions in the daily listings.

ee360 Pre-Conference Meetings and Workshops Tuesdav

The Road to NAAEE Higher Education Accreditation: A Map for Success 8:30 AM-4:30 PM, Elkhorn A Registration required

Cegistration required. Frain-the-Trainer Workshop: NAAEE's Community Engagement Guidelines for Excellence 8:30 AM-4:30 PM, Heritage Ballroom 3 Registration required.

Multiple autor required. Building Inclusion by Exploring White Fragility and Emotional Intelligence 8:30 AM-12:00 PM, Regency Ballroom 1 Registration required.

Designing for Change: Connecting Environmental Education Research and Practice 8:30 AM-12:00 PM, Regency Ballroom 2 Registration required.

ee360 Conference Sessions

Learn About NAAEE's New EE Evaluation Portal! 8:30 AM-10:00 AM, Heritage Ballroom 1 Using Virtual Reality To Inspire Learning About New Zealand's Marine Environment 8:30 AM-9:10 AM, Elkhorn C We're Updating and Revising—Environmental Education Materials: Guidelines for Excellence 8:30 AM-9:10 AM, Thoroughbred 2 A Conversation on Higher Education Accreditation 9:20 AM-10:00 AM, Thoroughbred 5

ee360 Community EE Fellows Leadership Workshop 1:00 PM-5:00 PM, Kentucky By Invitation.

Introducing the Newly Revised K-12 Enviro Education: Guidelines for Excellence 1:00 PM-4:30 PM, Regency Ballroom 2 Registration required.

Where Civic Experience and Environmental Education Connect 1:00 PM-4:30 PM, Heritage Ballroom 1 Registration required.

Thursday

Swamp Rabbit The swamp rabbit, or swamp hare, is a large cottontal rabbit found in the wetlands of western Kentucky. They are at hom in water, with webbing between their toes to belo them seeim and walk

NAAEE's Nationwide Effort to Strengthen the Field: ee360 9:20 AM-10:00 AM, Elkhorn C Flexing the Guidelines Trainer Bureau Model: A Pilot 10:30 AM-11:10 AM, Hyatt Suites Hood 2 Farm 10:30 AM-11:10 AM, Elkhorn D Alphabet Soup: Establishing Common Ground Through Definitions 2:15 PM-2:55 PM, Thoroughbred 1 Designing Inclusive Professional Develop for Educators 2:15 PM-2:55 PM, Thoroughbred 2 A Community Action Program for Teen Volunteers 3:05 PM-3:45 PM, Elkhorn C

Updated and Revised—K-12 Environmental Education: Guidelines for Excellence 4:00 PM-4:40 PM, Thoroughbred 1 Using the Guidelines for Excellence in College Classrooms 4:00 PM-4:40 PM, Thoroughbred 5

A Toolkit for Starting an Early Childhood Nature-Based School 4:50 PM-5:30 PM, Elkhorn C Digging Deeper: How an App Can Teach Sustainable Decision Making 4:50 PM-5:30 PM, Elkhorn D

EE Certification: The Benefits of Being Certified 4:50 PM-5:30 PM, Thoroughbred 1 Youth Summits: Inspiring Stewardship and Civic Engagement 4:50 PM–5:30 PM, Thoroughbred 2



Cardinal The cardinal is the state bird of Kentucky, adopted in 1926.

JAL NAAEE CONFERENCE | LEXINGTON, KY 29

Friday

Diversity, Equity, and Inclusion: Strengths & Growing Edges at Multiple Scales 9:20 AM-10:00 AM, Thoroughbred 1 Asset-Based Communities and Timebanking 10:30 AM-11:10 AM, Elkhorn D Sadhu for Green: Discovering Environmental Connections in the Khmer Community 10:30 AM-11:10 AM, Elkhorn C

1030 AAH-11:10 AM, Elkhorn C eeRPA Group Meetings 11:15 PM-200 PM, Locations vary, see page 25 Advocar, Policy and Civic Engagement Climate Change Education Connecting to Nature Conservation and Behavior Change Data Literacy Equity and Inclusion Early Childhood EE E-STEM Global Els for Excellence Higher Education

Empower Youth Through Social Enterprise Sustainability, and Collaboration 2:15 PM-2:55 PM, Thoroughbred 1

Hurricane Island's Sustainability Through Engagement with Place (STEP) Teacher Cohort 2:15 PM-2:55 PM, Elkhorn D School Pollinator Garden Project 2:15 PM–2:55 PM, Elkhorn A

Using eeRESEARCH to Bridge the Research-to-Practice Gap 2:15 PM-2:55 PM, Elkhorn B Shell Day & Community Approaches to Ocean and Coastal Acidification 3:05 PM-3:45 PM, Elkhorn D

The Importance of Youth Voice in Education 3:05 PM-3:45 PM, Thoroughbred 1 Water, Wind, and Fire: How to Rock Community & Citizen Science

Wednesday Affiliate Workshop: Systems Thinking and Strategic Planning 8:30 AM-4:30 PM, Hyatt Suites Registration required. naaee Affilia Thursday Making your Affiliate Flourish: Fundraisi and Sponsorships 8:30 AM-9:10 AM, Hyatt Suites Affiliates Bringing Back the BEETLES 9:20 AM-10:00 AM, Hyatt Suites Flexing the Guidelines Trainer Bureau Model: A Pilot 10:30 AM-11:10 AM, Hyatt Suites U Affiliate Network Open Space 2:15 PM-3:45 PM, Hyatt Suites

NAAEE and the Affiliates: A Force for Nature A FORCE OF NATURE A NATURE AND A STATUS AND

an equitable, sustainable, and vibrant world. Each year, the NARE Conference features a number of sessions designed by Affiliates, for Affiliates, This year, all Affiliate focus are seasons will take place in the Hyatt Suites, making it easier for participants to find content that mets the unique needs of Affiliate organizations. Morring sessions will fautur tratificionally styled conference presentations, while afternoon sessions will offer open space discussion and more free-formed networking and learning opportunities. Specific did do-cristale with the affiliate network as the conference unfolds.

A Look for this symbol marking Affiliate sessions in the daily listings.

Track 2—Early Career Educators, Patterson C Fundraising Essentials: Message, Momentum, and Mindset 8:30 AAP-910 AM Like 10 not, every nonprofit employee is also a fundraiser and must build the relationships the stand and must build the relationships the stand and must build the relationships messages and must build the relationships messages and winning proposals, while creating the donor connections, forward energy, and rapport that make gifts happen. Lae Harvey and Krishna Roy Tarcerformational Leadership

Middlesboro, KY Middlesboro is the only city in the United States built within a meteor crat

Fill Your Dance Card! 4:00 PM-4:45 PM, Hya

Exploring the Status and Needs of the Affiliate Network 4:00 PM-4:40 PM, Hyatt Suites

Affiliate Heads Together 4:50 PM-5:30 PM, Hyatt Suites

Strategic Planning for Affiliates 8:30 AM-9:10 AM, Hyatt Suites

Governance: Boards Making a Difference 9:20 AM-10:00 AM, Hyatt Suites

Affiliate Committee Working Session 2:15 PM-3:45 PM, Hyatt Suites

EE Certification and NAAEE Accreditation: Here's What's New! 10:30 AM–11:10 AM, Hyatt Suites

Olivia Griset is the Executive Director of the Maine Environmental Education Association (MEEA) and the Colourder of the Maine Environmental Changemaker and the power of network waving, Olivia works in out of the power of network waving, Olivia works in equitable, sustainable, and healtry communities follow assers on the Allihaus Science (Dominities for the Maine Nature Based Education Constraints.

the Maine Nature Based Education Consortium. With a background that spans environmental, higher education, and policy organizations. Lea Haney is committed to ballings the capacity of the monprofit sector to be a force for positive change. Lea has held functialing and senior management roles at organizations like World Wildlife Fund, BoardSource, and Resources for Heature. She camely Address own functianing consultancy, LLM Stategy Address. Director of Foundation and Corporate Baldions for her atms mates. Sweet Briar College.

her alma mater, Sweet Brinr College. Charissa Jones is a dis-gender Black Immigrant. Dutch Creole, Dutch Carbibean South American Iesbian educator and advocate who provides organizational leadership for enhancing a collaborative, just, School Prozonie, Ordenally from School School Prozonie school Prozonie Ordenally from School Prozonie sinterested in (re)connecting folis to their environments and helping them feel welconed and rosted. She's committed to and passionate about removing larnies and increasing access anone mathematication of the document of the docu

conversation. A social activitis and strategist. Krishna Rey designs and implements laser-focused nonprofit management, fundationis, and normanications programs to support social causes. She has created groundbreaking campaigns, produced award-winnin videos, built unlikely partnerships, and raised million of dollars. Krishna serves on several bacats includin, the Oceangute Foundation. Trast for Architectural Essements, and Sound Principles.

Easements, and Sound Principles. Terri Thompson is a nationally renowned speake author, and entrepreneur specializing in helping individual sourced. Her programs are declarated to inspiring and challenging people to achieve th own brand drived is success. Using humor and rea-life lessons, it is Terris goal to bring out the best: every person in her audience. Terri has delivered powerful presentations to thousands across the rountry.

Friday

Affiliate Sessions

Saturday

Affiliates and Advocacy 8:30 AM-9:10 AM, Hyatt Suites Introduction to Crowdfunding: Using Your Team to Fundraise 920 AM-10000 AM 10000

ndraise 0 AM–10:00 AM, Hyatt Suites EE Associations: Making the Most of Membership 10:30 AM-11:10 AM, Hyatt Suites

Talking About EE: Crafting Messaging with Affiliates 11:20 AM-12:00 PM, Hyatt Suites





Fundraising Roundtables Thursday & Friday, times below, Thoroughbred 4 Sign up required. How dol start conversations that lead to bigger gifts? How can lear two para members more engaged in fundraising its this project right for corporate or foundation support Am Joing AW of this right? Whether you're new to fundraising or bixABEP for interfacement of the starting coaching sessions with fundraising consultants Lea Harvey and Kröhma Row.

Partners and Supporters Thank you to our partners and supporters!

Conference Co-Chairs

190

Ashley Hoffman Jim Embry Kentucky Association for Sustainable Environmental Education Communiti

Conference Committees Conterson Auction Billie Hardin Henrietta Sheffel

Awards Brenda Metcalf Field Trips Jim Embry Ashley Hoffman Brittany Wray

Brittany Wray Program Production Kathy McGlauflin Research Symposium Marcia McKenzie Olivia Aguilar

This onference would me possible without the dedication of all the people on this list, as well as their employers and families. These amazing volunteers gave generously of their time and talents. There are also hundreds of others, not listed here, who picthed in to help along the way. Thanist to all of you for your hard work and willing spirits. You've brought this conference to the

Scholarships

Scholarships Becca Franzen Rochelle Gandour-Rood Sylvia Hadnot Jenny Hubbard-Sanchez Jeanine Huss Ruth Kermish-Allen Dottie Shuman Rachel Sowards Elena Takaki Alex Porpora James Vaught Bruce Young Medicateore

Volunteers Wesley Bullock And our wonderful team of more than 75 onsite volunteers!

ERENCE | LEIGINGTON, KY 34

() naaee

188.23

 Sixth Annual Environmental Education Weihaltion Cittic
 Participation II Initiated and space will be filled on firet-score. Ifin:score that issues that the firet-score. Ifin:score that issues is give year that scalation Cittic Where you can ask weishow of the aperts and contribute your own relevant on the scalation of the scalation of the aperts and contribute your own relevant on the scalation of the scalatio the scalation of the scalation of the scalation of t Finday 305 PM-335 PM With a background that spans environmental, higher education, and policy organizations, Lee Harvey is committed to building the capacity of the nonprofit sector to be a force for positive change. Across more than two decakes, Lea has held fundraising and senior management notes at organizations like World Wallfiel Fund, BoardSource, and Resources for the Future. She currently leads her own fundraising consubancy. LLH Strategy Advisors, LLC, Dased in Northern and Changer Aross and Advisors, LLC, Dased in Northern and Changer and Boaldianse for her alians market.

LLH Strategy Advisors, LLC, based in Northern Virginia, and also serves as Director of Foundation Sweet Bhar College. A close strategy of the strategy of the strategy of an end of the strategy of the strategy of the strategy of programs to support social causes. She has reasted groundbreaking campaigns, produced award-winning videos, built unlikely partnerships, and raised millions of dollars. Krishna serves on several boards including the Oceangate Foundation. Trust for Architectural Laements, and Sound Principles.

Building Leadership for Environmental Literacy Dave Chase

•

Dave Chase Connecting with Nature Jean Kayira Environmental Education Michelle Edman deducating for Sustainable Communities Lee Frankel-Goldwater 0 Green Schools and Preparing for 211° Centry Careers Jennificr Ortega

Linking Research and Practice to Increase Impact Justin Hougham Steve Kerlin

Young Professionals I Maya Alexander Mayesha Choudhury Lauren Gibson Olivia Grisse Nina Hamilton Charissa Jones Lori Mann Drew Price Melissa Hopkins Tagga Elise Trelegan Anne Umali Danny Woolums

Young Professionals Initiative

kins Taggart

Danny Woolums Conference Froposal Reviewers Thank you to nearly 100 colleagues many to the nearly 100 colleagues proposals submittee for this year's conference, helping to shape the conference program. If you would like to outineter to review proposals in 2020, watch for announcements in eeNEWS, NAEE's enal builden. We look forward to working with you to create another outstanding program in fuscosit

🐚 naaee



Especially for Young Professionals

professionals sessions in the daily listings. **Conference Buddies** If you're new to the conference and signed up through registration for a conference buddy, meet your partner limediately after the conference orientation on Wednesday at 5:15 PM in **Thoroughbred** 4 to set a meeting time and head to the opening reception.

ure upening reception: Making the Most of the NAAEE Conference Wednesday, 445 PM-5-15 PM, Thoroughbred 4 Young professionals and first-time conference participants are welcome to join this brief orientation to the NAAEE conference, including keys to selecting sessions of interest, scheduling, networking opportunities, and more.

networking opportunities, and more. EE 30 Under 30 Reight Spots Thursday-Saturday, Elkhorn C Eightene of NAKEFS 2019 EE 30 Under 30 honorees are presenting bright spots about their inspiring work throughout the conference. Look for sessions marked "EE 30 Under 30 Honorees" in the daily session listings.

Session listings. Young Professional Networking Dinner & Drinks Thursday, October 11th, 7:00 PM, HopCat Lexington (410 W. Short Street) Network with other young professionals over drinks and dinner at HopCat Lexington, a top beer bar with famous fries? Meet at the restaurati; no-host event.

Tamous thesi Meet at the restaurant, no-host event. EE 30 Under 30/Vorug Leaders Making a Difference 12:00 PM-230 PM, Bluegrass Balloom 2. To close the conference on a high note, NAAEE has brought together four inspiring young leaders from our E 30 Under 30 honorese to share their stories and perspectives on how to develop leadership in the field of environmental education.

Conference Scholarships

Cal Water H2O Challenge

A CHENER

EE has joined with the California Water Service reate the 6th Annual Cal Water H2O Challenge, oject-based competition for scholos seeking hance fourth, fifth, and sixth grade students' erstanding of water-based science principles.

We are proud to recognize Emily Akimoto's fourth-grade class at Sierra View Elementary in Chico, California as the 2019 grand prize winner for their project titled "Protecting Paradise."

project titled "Protecting Paradise." Emlys students felt a cali-to-ction after the Camp Fire devastated parts of the Chica community and neighboring towns including Paradise, California. The students researched and tested local watersheets, installed wattles and plants to preserve Butte Creck, and informed the local community on rebuilding efforts. The impact Leaner water, fresh greenery, an informed community, and an outlet for student \$3500 classroom grant and a source field trip to Yosemite National Park with NatureBridge.

RENCE | LENINGTON, KY 32

NAAEE is proud to have provided funds to help more than 225 professionals and students attend the 2019 conference in Lexington. Our deepest thanks go to the following organizations, whose support made this possible. We share the important goal of making the conference, and the field of EE, more equitable and inclusive.

We are especially grateful to the many NAAEE members who contribute to scholarships through their William B. Stapp Scholarship Auction purchases and as part of their conference registration.

COGERENTE | LEDING



ing Professionals Clinic irsday, 8:30 AM–11:10 AM, Patter ursday, 8:30 AM-11110 AM, Patterson Ballroom hether you're a student, just getting started your career path, or in your first professional sition, this clinic will help build essential skills that help you now and in the future. Choose from ssions in two tracks: Job Seekers and Early-Career

rack 1—Job Seekers, Patterson Ballro

All the second sectors and the second sectors and the second sectors and the second sector and the second sector sectors and second seco

Michael Cronk Need To Know Networking 920 AM-020 AM This program covers the four "Need To Know Networking" tips. Networking is essential throughout our entire lews, both with our careers the jitters that often go with the thought of networking, as well as how to make the absolute most of every networking opportunity. Relevant the conference at hand, participants will be armed and ready with networking know-how!

Terri Thompson Nall 14 Acie the Interview and Getting Paid 13:37 Acie 14 Acie 140 Adi An effective application can land you an intervie but the interview gets you the job, Learn best practices for preparing for and executing an effective interview. Additionally, entering salary research to provide evidence for your demands/ tips and strategies will be provided to assist lockade Crank

Lea Harvey and Kristina Boy Transformational Leadership 9:20 AM-1000 AM Using a transformational leadership model, we will explore how we want to show up as rising leaders in our organizations and the field of EL Trongin facilitated activities we will experiment with notos that guide the cubinetion of an abundentifup. Elleen Einent, Oliváa Griset, and Charissa Jones

Electropert, Uliva Griset, and Chartsajones Game-Charging communication 1030.AkH-1110 AM Take a look at the often overhooked power of how Take a look at the often overhooked power of how atters communicate far more than our words. Communicating with co-workers, collegues. bosses, and staff te essential to every step of the habits of exceptional communicators. Terror Thompson

The UL Innovative Education Award

The UL Innovative Education Award

In partnership with Underwriters Laboratories Inc (UL), NAEE announced the six recipients (plcture above) of the fifth annual UL innovative Sducation Award. The award recognises and supports nonprofits using science and technology as a particu-to engage students in addressing environmental concerns. Please join us in congratulating these extraordinary programs.

Conterns, Treas-, programs. settraordinary programs. Grand Prize Winner: \$10,0000 Recognition Grant Prine Jog Environmental Education Center by Florida Attant: University Prine Jog Environmental Education Center via no end the first environmental education centers in Pordia and one of the oldest in the country. Decicated to developing: rescarting, and disseminiarigh highly effective educational programs and services for prive Rivoral pro-bescondary students that culturator Prine Jog offens a carler of 14 programs emphasizing strong academic learning, creating Justing social relationships, and moving students of all ages along a progressive continuum toward E-STEM literacy.

ology as a pathway nvironmental

Presenters: Michael Cronk serves as the Associate Director of Career Development at Transylvania University, a private. Iberal arts college, in downtown Exemption. IV: Miching in base with and splitication centrates Additionally. Michael served as Board Chair for Blugrass Greenource, an environmental nonprofit serving 16 counties in central Kentucky. serving 16 counties in central Kentucky. For more than 51 years, Elleen Evert has worked as an environmental educator, personally teaching more than 52000 New Mexica statuents around the state through mostly outdoor, multi-day programs. She deeply values an abundance middet, education designed for all students, and a more equitable and inclusive work. Elsen has storeign onoprofit experience, having worked in the social sector for for the Sarat & Community Foundation's Emerging Social Sector Leaders Program.

Second Tier Winners \$50,000 Recognition Grants **B STIM**—Environmental Tribal Youth Camps, The E45 TEM—Environmental Tribal Youth Camps, provide Native American guich in twei Moxico the opportunity to engage with cultural leaders provide Native American guich in twei Moxico in environmental projects designed to increase their knowledge. The camps cover environmental issues and how these issues impact tribal commanies in knowledge. The camps cover environmental guices and how these issues impact tribal commanies in traditional knowledge youth active provide and the environmental guices in learning E5TEM subjects to be better stewards of their ancestral lands. **CareerCLUE**

their ancestral lands. CareerCLUE Solar Ones CareerCLUE is a unique summer youth employment program that blends for-credit academics, personal development, and engagement in environmental sustainability through four emrity explores ASTEM through four unity. Energy, Matter Solar One environmental educator and a locestadu learning, the program builds student knowledge and inparts the mix of skills necessary to thrive in the green careers of the 21st century.

green careers of the 21 st century. Third Ter Winnerstal Changemakers Network The Maine Environmental Changemakers Network The Maine Environmental Changemakers Network The Maine Environmental Changemakers Network network that connects young Mainers who are professional mentors, training, and the resources supporting the advancement of youth one are passionate about 55/TM. environmental education their communities. Youth and adults collaborate passionate about 55/TM. environmental education community committed to mentorship, innovation, and the sharing of environmental ideas.

For more information, visit naaee.org/ ulinnovativeeducation

(U_)

Mammoth Cave

IUAL NAAEE CONFERENCE | LEXINGTON, KY 36

Vings Over Water by Montana Natural History Center Wings Over Water (WOW) brings research into the hands of middle and high school students through the study of the local Ospress. The program builds EVEN despertise for teachers, who return to the student of the local Ospress. The program builds provide the local ospress. The student of the entire process of scientific discovery, asking and entire process of scientific discovery, asking and taking action in their communities to solve problems and answer essential E-STEM questions. **Youth Energy Squad (YES)** grows the next generation of green leaders in more to Betrot for everyone. Early various for the school green teams. These teams mere weekly to address a fuel solved and theing actional process of VES students. **Hore** teams mere weekly to address a fuel solved and through the experience to this doing providis in E-STEM, hone their presonal and professional leadership styles, and are exposed to green careers—all while imaking a tangible impact in mero Detroit.

INNOVATIVE

Mammoth Cave, Mammoth Cave, the world's longest cave, was first promoted in 1816, making it the second oldest tourist attraction in the United States. Niagara Falls New York, is first.