

8th Annual Statewide Delaware Environmental Education Conference



Wherever you are!

The Pilot School, Wilmington, Delaware
February 11, 2017



**Delaware Association
for Environmental
Education**

2017 Conference Agenda

8:00 - 8:30 a.m.	Registration, Morning Refreshments & Networking				
PLENARY SESSION 8:30 - 9:30 a.m.	Welcome and Morning Announcements: Angel Burns, DAEE Chair				
	Opening Keynote: Connecting Students and Educators to Nature Kathy McGlaufflin, Executive Vice President, Project Learning Tree				
PLENARY SESSION 9:30 - 10:00 a.m.	DAEE Business Meeting				
10:00 - 10:20 a.m.	Morning Networking Session: Silent Auction, Visit Exhibitors				
STRAND	Experience Nature through Play	Connect with Nature Using Science	Engage Nature with Technology	Inspire Learning through Nature	Connecting to Your Audience
ROOM #	Library 125	Art Room 147	Conference Room 108	Flex Room 109	Science Lab 208
CONCURRENT SESSION I 10:20 - 11:10 a.m. (50 min. session)	The Evolution of Nature Play in Maryland	Project Learning Tree, Early Childhood: Evergreens in Winter!	Fusing Technology and Nature	Starting a School Vegetable Garden	Climate Change 101
CONCURRENT SESSION II 11:20 - 12:10 p.m. (50 min. session)	Earth-friendly, Child-friendly Natural Play & Learning Spaces		Community Watershed Engagement & Learning Tools at Wikiwatershed.org	Noticing Nature: Nature Journaling for Everyone!	
12:10 - 1:00 p.m.	Boxed Lunch Networking, Silent Auction, Visit Exhibitors				
CONCURRENT SESSION III 1:00 - 1:50 p.m. (50 min session)	Off-site Field Trip Enchanted Woods: The Magical Children's Garden at Winterthur*	Bio Blitz: Community & School Science in the Field	Diving Deep into Digital Storytelling	Managing Animals for Successful Educational Programming	Change Your Bait: Easy-to-Implement Strategies to Elevate the Craft of Teaching
CONCURRENT SESSION IV 2:00 - 2:50 p.m. (50 min session)	Off-site Field Trip Enchanted Woods: The Magical Children's Garden at Winterthur*	Learning from the Center of the Earth*	Using Technology for Environmental Stewardship		Observe to Learn: Wildlife in Your Classroom & Your Class in the Wild**
2:50 - 3:15 p.m.	Afternoon Networking Session Silent Auction, Visit Exhibitors				
CONCURRENT SESSION V 3:15 - 3:35 p.m. (20 min session)	Laughter Yoga!	Engaging Students in Science through Ecology	Delaware's Children In Nature Initiative	Hands on Gardening and Chickens, at Camp!	Developing an Outreach Strategy to Target Your Audience
PLENARY SESSION 3:40 - 4:45 p.m.	Closing Keynote: Achieving Conservation Success Through Behavioral Connections Phung Luu, Animal Behavior & Conservation Connections, LLC Closing Remarks				
PLENARY SESSION 3:40 - 4:45 p.m.	Please join us for a post-conference Happy Hour! Bertucci's, 3596 Concord Pike, Wilmington, DE 19803				

* Sessions are not held in the room as listed.

Check session description for correct location.

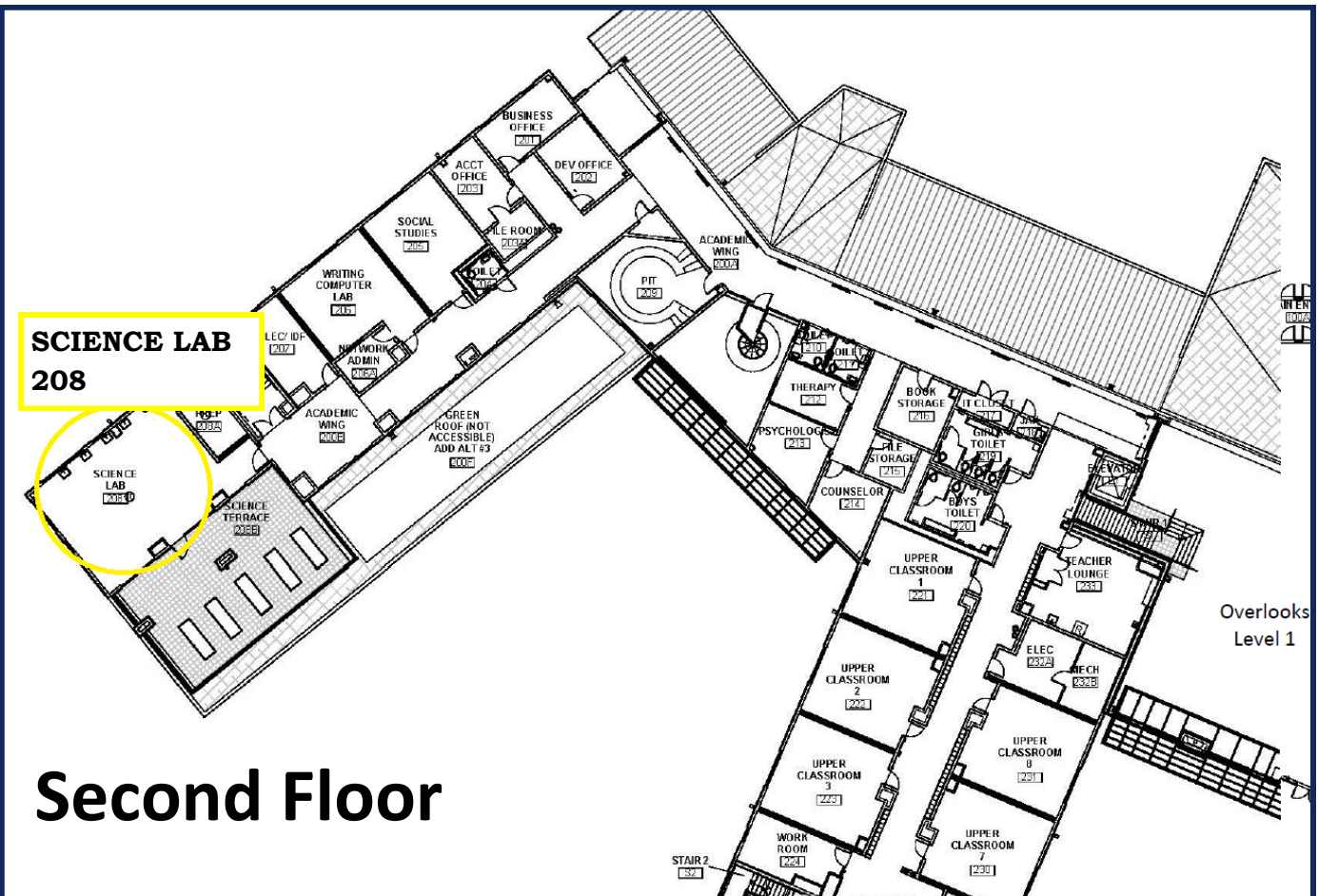
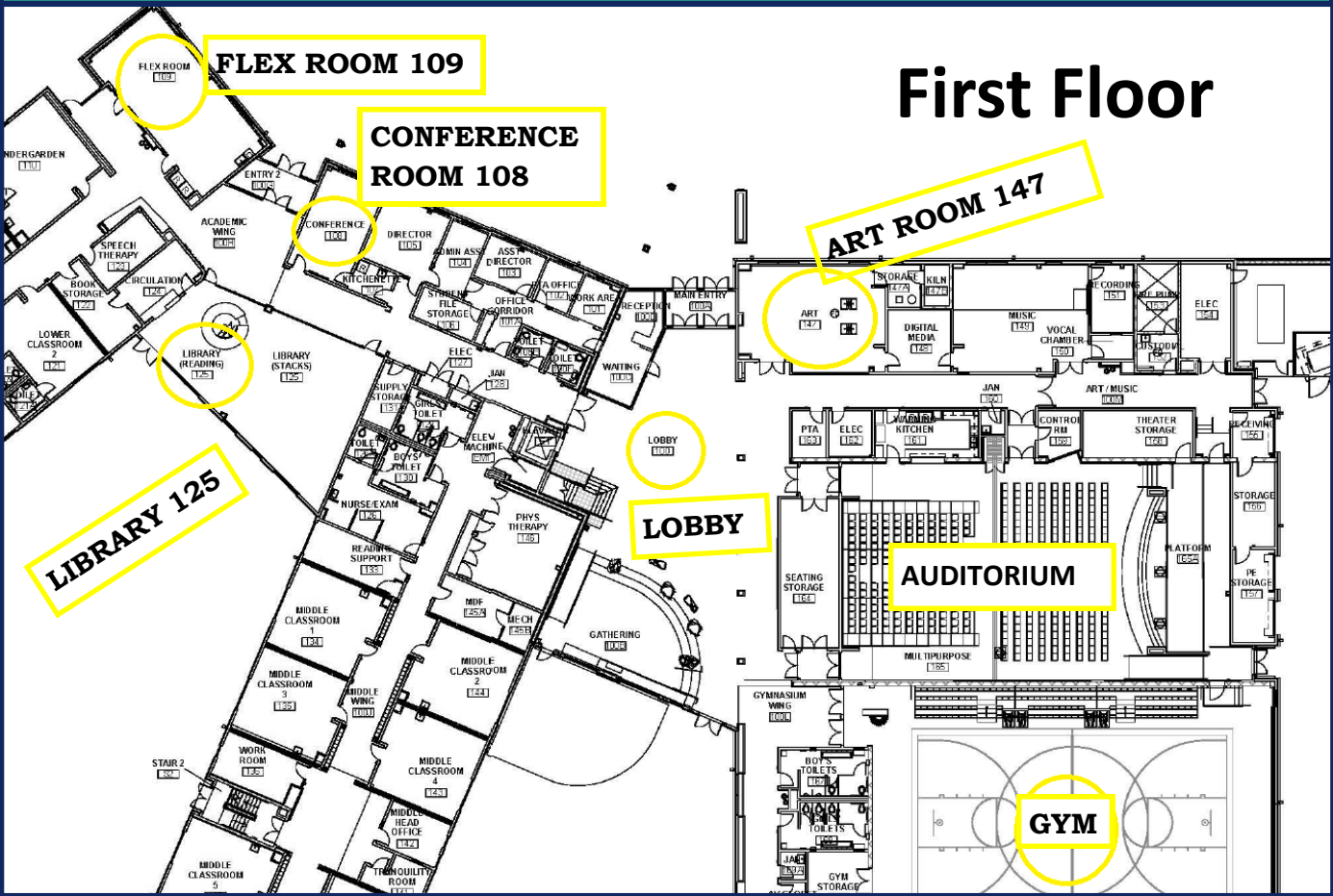
** two, 20 minute sessions

All plenary sessions will be held in the auditorium

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Map of the Pilot School:



2017 Conference Keynote Speakers

Phung Luu

Director, Animal Behavior & Conservation Connections

“Achieving Conservation Success Through Behavioral Connections”

Having developed a connection with the natural world at a young age, Phung continues to enjoy and share his love of nature and animals through free-flight program presentations. As Director of Animal Behavior & Conservation Connections, he takes the educational program to Zoos, schools and parks throughout the US where audiences are engaged through first hand experience of free-flight birds exhibiting natural behaviors. Phung will also be leading a hands on, double session where participants will be able to handle live birds!



Kathy McGlaulin

Senior Vice President of Education, Project Learning Tree

“Connecting Students and Educators to Nature”

Kathy is Senior Vice President of Education for the American Forest Foundation (AFF) and Executive Director of Project Learning Tree (PLT). She is a past president and board member of the North American Association for Environmental Education (NAAEE) and has served on a variety of other advisory and education boards of organizations such as the World Wildlife Fund and the National Association of Conservation Districts. Kathy has received numerous awards for her work in environmental education, most notably the prestigious Walter E. Jeske Award for lifetime achievement in environmental education from NAAEE.

2017 Conference Logo

DAEE would like to thank DAEE Board Member, Jennifer Bowman for her creative and artistic design of the 2017 Conference logo. It is truly inspired! Our best wishes go with Jennifer as she has accepted a new position in New Hampshire and is moving directly after the conference.

Thank you Jennifer!



2016 DAEE HIGHLIGHTS:

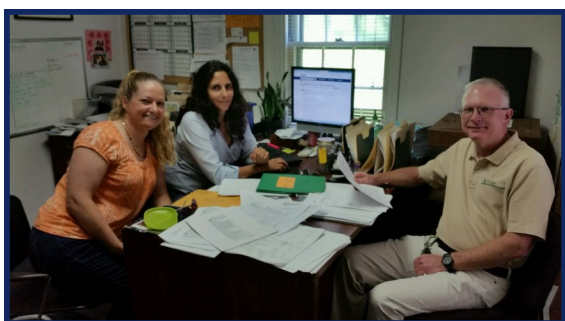


E3: Environmental Educators Everywhere!

DAEE's 7th Annual Conference

Environmental educators were everywhere during the 7th Annual DAEE Conference at the Tatnall School on Saturday February 27, 2016! The day kicked off with an inspirational keynote address from Dr. Dean Goodwin, of Tatnall, who related directly to the conference by talking about the importance of environmental education in the classroom, the field, online and the home (the conference strands). Dr. Goodwin also talked about the challenges facing the younger generation, gave members some background on the The Tatnall School and its programs, and introduced his newly published book.

May 20, 2016, member tour of Delaware State Park's Auburn Heights Preserve and restoration site of the old Auburn Mill. The visit included a tour of Auburn Heights, the Marshall family home, a preview of the Marshall Steam Museum adjacent to the house, and a closer look at the former Marshall Brothers Paper Mill and National Vulcanized Fibre Corporation (NVF) restoration site near the mansion. The event was open to members of DAEE and the Delaware Chapter of AWRA.



June, 2016 DAEE Board Chair, Angel Burns, Co-Chair, Rick Mickowski, and Treasurer, Ashley Peebles hard at work preparing the Delaware Association for Environmental Education's 501(c)(3) paperwork.



NAAEE Guidelines for Excellence Training

In November of 2016, educators from around the State of Delaware participated in the North American Association for Environmental Education Guidelines for Excellence Workshop and Trainers Bureau training with Dr. Bora Simmons.

Dining for Dollars!

On December 12, 2016, DAEE celebrates its newly awarded 501(c)3 status with a night out at Bertucci's restaurant in Newark, Delaware.



**Delaware Association for Environmental Education
Business Meeting
Annual DAEE Conference
February 11, 2017
The Pilot School, Wilmington, Delaware**

2016 Review

2017-2020 Strategic Plan Update

Expanding Audiences Scholarship

2017 Mini-grant Awardee

2017 Member Events

Board Members Elections

Items from the Floor

2017 Board Nominees:

Trish Gerken
Dr. Dean Goodwin
Maggie Pletta
Rick Mickowski
Claire Mickletz
Cathy Perrotto

2017 DAEE Member Events:

- ♦ **April: Flint Woods Hike & Happy Hour**
- ♦ **Late May/early June: Horseshoe crab spawning/kayak paddle workshop**
- ♦ **Summer: Early Childhood Workshop: Growing Up Wild & PLT
Environmental Activities for Early Childhood**
- ♦ **Fall: Introduction to Meaningful Lesson Evaluation Workshop**

Delaware Association for Environmental Education

STRATEGIC PLAN

2017-2020



VISION

Environmentally literate communities that are engaged in responsible environmental behavior and stewardship.

MISSION

Promotes environmental and outdoor education to facilitate positive community impact on the conservation and sustainability of Delaware's resources.

Membership

GOAL: DAEE will build and retain a diverse and engaged membership

OBJECTIVES:

1. Connect and engage a statewide network of environmental education providers
2. Offer high quality, professional development opportunities for formal and informal educators
3. Improve membership retention and expand membership diversity

Fostering Networks

GOAL: DAEE will foster the relationship between formal and informal educators interested in environmental education

OBJECTIVES:

1. Provide networking opportunities through annual conference and member and partner events
2. Increase awareness of the informal environmental education programs and services available to formal educators
3. Explore options for certification for environmental educators that ensures high-quality programming

Connecting to the Environment

GOAL: DAEE will connect our audiences to the environment

OBJECTIVES:

1. Increase awareness and appreciation for Delaware's natural resources
2. Improve environmental literacy through outreach and events
3. Define and foster partnerships to facilitate connections with diverse audiences

CONCURRENT SESSION I DESCRIPTIONS: 10:20 - 11:10 a.m.

The Evolution of Nature Play in Maryland

10:20 - 11:10 a.m.

Strand: Experience Nature through Play

Library 125

The Maryland Nature Play Work Group has made significant progress in the past 7 years to promote nature play in parks, nature centers, schools, and early childhood settings throughout the state. In this session you'll learn about how this group of local experts (which includes planners, policymakers, educators and designers) has shaped a movement in our neighboring state. We will share resources, training ideas and highlight some of our favorite projects.

Amy S. Henry, Conservation Education Specialist, Maryland Dept of Natural Resources
Nancy Striniste, MLD - Founder and Principal Designer at EarlySpace

Project Learning Tree, Early Childhood:

10:20 a.m. - 12:10 p.m.

Evergreens in Winter! (Double Session, 110 minutes)

Strand: Connect with Nature Using Science

Art Room 147

Come paint with evergreen brushes and feel “tickly and prickly branches.” Inspect a branch up close and learn how to estimate its age or take the time to sort cones of all sizes. Evergreen trees offer a sensory overload! They can provide experiences for children to touch, smell, see, hear, and taste the season of winter. Project Learning Tree’s Environmental Experiences for Early Childhood guide integrates nature-based exploration, art, literature, math, music and movement, and outdoor play into early childhood education programs. It allows children to explore, discover, and communicate in expressive ways. This session will introduce participants to PLT’s Environmental Experiences for Early Childhood and activities for incorporating trees into your program, even in the winter!



Ashley Peebles, Education Coordinator, Delaware Forest Service

Fusing Technology and Nature

10:20 - 11:10 a.m.

Strand: Engage Nature with Technology

Conference Room 108

This session will focus on examining various applications that can be used outdoors to incorporate technology and learning. Topics may include using Google Docs to create nature journals, Using Google Keep as a nature sketch book, and Pokémon Go and moving students outdoors. We may also examine using digital cameras, mapping applications, geocaching, and more. Ideally, participants will have time to question and utilize the various apps. If weather permits, we can move outside as well. The ultimate goal of the session is to present a variety of resources and then tie the resources together into a lesson plan. Participants will need a device and if the weather is nice, we will go outdoors!



Justin Malin, Instructional Technology Specialist, Smyrna School District

Delaware Association for
Environmental Education
www.daeonline.org

Starting a School Vegetable Garden
Strand: Inspire Learning through Nature
Flex Room 109

10:20 - 11:10 a.m.

Are you interested in starting a school vegetable garden using a garden-based curriculum that aligns with state content standards? Looking for a great hands-on experiential outdoor learning opportunity that can take place right outside of your classroom each year? Excited about healthy produce for your school cafeteria or a possible classroom cooking demonstration? Then this informational workshop is for you! Come learn how to setup a vegetable garden that will enable students to participate in seed to table growing each spring and fall. In this workshop, we will discuss the academic and health benefits of a school vegetable garden program, our typical program structure and format, as well as the time commitment and resources necessary for the implementation of a successful program. Presentation will also touch upon opportunities for project-based learning and conclude with a delicious stir-fry cooking demo featuring our favorite garden veggies.



Healthy Foods
FOR Healthy Kids
The First State school garden experts

Lindsay Lancaster, Program Manager, Healthy Foods for Healthy Kids

Climate Change 101: Too much of this produces too much of that, causing too much of this other stuff; and what we can do about it (Double Session, 110 minutes)
Strand: Connect with your Audience
Science Lab 208

10:20 a.m. - 12:10 p.m.

It's in the Next Generation Science Standards; we're getting more and more questions about it from our program participants; and some call it the number one issue facing life on our planet. Climate change is all around us. It's happening, we're the cause, it's already having impacts, and there are things we can do about it. In this session, participants will explore a series of hands-on activities and demonstrations, that each dig into a climate change topic: weather vs. climate, the carbon cycle, greenhouse gases, ocean acidification, sea level rise (thermal expansion, land subsidence, melting land ice vs. sea ice), ocean circulation, and solutions (adaptation and mitigation strategies). Then, we will discuss how all these puzzle pieces fit together. Participants will leave the session with a better understanding of climate change, more confidence to teach about it, and lots of activities to add to their toolbox. Resources will be made available to session participants.



Christopher Petrone, Marine Education Specialist,
Delaware Sea Grant
Melissa Rogers, Education Coordinator,
MADE CLEAR Project

CONCURRENT SESSION II DESCRIPTIONS: 11:20a.m. - 12:10p.m.

Earth-friendly, Child-friendly Natural Play and Learning Spaces

11:20 a.m. - 12:10 p.m.

Strand: Experience Nature through Play

Library 125

An experienced landscape designer/former teacher shares inspiring images of her earth-friendly, child-friendly designs for ECE, schools and parks. Discover essential elements of natural play and learning spaces and their importance for healthy development: natural climbing, digging and pretending places; outdoor art, literacy spaces; beautiful native and edible kid-friendly plants.

Nancy Striniste, Landscape Designer, EarlySpace, LLC

Community Watershed Engagement & Learning Tools at Wikiwatershed.org

11:20 a.m. - 12:10 p.m.

Strand: Engage Nature with Technology

Conference Room 108

Wikiwatershed® is a community web toolkit to support citizens, conservation practitioners, researchers, educators, and students to collaboratively advance knowledge and stewardship of fresh water. Attendees will be guided through the online Model My Watershed (MMW) GIS and the Water Quality mobile app. MMW is designed to support citizen science efforts by providing rapid visualization of watershed data, advanced geospatial analysis capabilities, and science-based predictions of stormwater runoff and water quality. As part of an NSF grant a MMW curriculum currently piloted in 5 states will also be shared. We will also explore the Water Quality mobile app. Site profile, water chemistry and physical parameters, and macroinvertebrate bioassessment data can be entered in the app, emailed to others, and interpreted for stream health determination. Some laptops will be provided.

Participants are encouraged to also bring their own computer and download the Water Quality app to their mobile device.

Steve Kerlin, Director of Education

Tara Muenz, Assistant Director of Education

Stroud Water Research Center



Noticing Nature: Nature Journaling for Everyone!

11:20 a.m. - 12:10 p.m.

Strand: Inspire Learning through Nature

Flex Room 109

Nature journaling is a fantastic activity for learners of all ages and abilities! You don't have to be a skilled artist to keep a nature journal. In this session, we will explore the versatile practice of creating and utilizing a nature journal, and its connection to sensory observation activities and hands-on learning. Students of all ages, abilities and various subjects can gain a great deal from learning the skills and methods of observation and reflection, especially about the natural world! We will discuss journaling on a budget, logistics, materials and techniques, how to choose your setting or subject material, working with sensitivity through no-show and tell, identifying opportunities for nature journaling, and evaluation. We will also briefly discuss the practice of Phenology, the study of natural cycles and seasons, and supportive resources for nature journaling. Participants will create a basic nature journal to take home!

Jennifer Bowman, Environmental Educator

CONCURRENT SESSION III DESCRIPTIONS: 1:00 - 1:50 p.m.

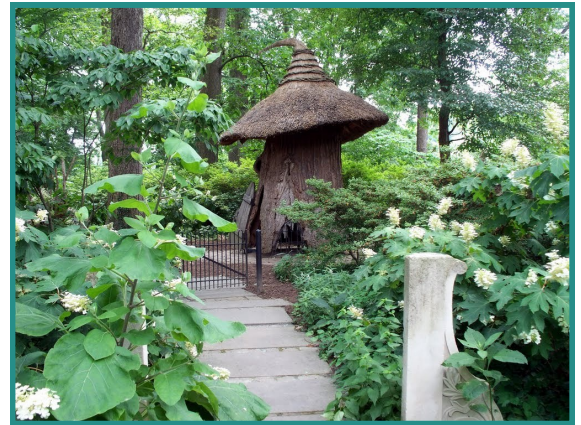
**Off-site Field Trip Enchanted Woods:
The Magical Children's Garden at Winterthur
Strand: Experience Nature through Play
Meet in lobby at 12:45 p.m.**

1:00 - 1:50 p.m.

Fieldtrip to Winterthur Museum, Garden & Library to explore Enchanted Woods, the children's garden. Fieldtrip will provide inspiration and insight into creating outdoor gardens and play spaces for children.

WINTERTHUR

Suzanne French, Garden Horticulturist,
Winterthur Museum, Garden & Library



**Bioblitz: Community and School Science
in the Field
Strand: Connect with Nature Using Science
Art Room 147**

1:00 - 1:50 p.m.

Pulling together local university researchers, professors, scientist, community members and students for a 'snapshot' of species in the field takes a great deal of patience and coordination. White Clay Creek State Park held their first Bioblitz, partnering with the Delaware Geographic Alliance and supported through a grant from the Delaware Association for Environmental Education. This presentation will focus on the student engagement program that brought 5th grade students into the field, introduced them to the iNaturalist app and provided a timeline for them to download their observations for species of interest in our park. Participants are encouraged to have and bring their cell phone for active participation. Pre loading iNaturalist is a plus!

Barbara Woodford, Interpretive Program Manager, Delaware State Parks
Lorin Felter, Interpretation and Education Coordinator, First State National Historical Park
Nora Reynolds, Natural Resources Intern, First State National Historical Park

**Diving Deep Into Digital Storytelling and virtual reality
to create immersive science education experiences
Strand: Engage Nature with Technology
Conference Room 108**

1:00 - 1:50 p.m.

Go virtual! See for yourself how emerging digital tools allow you to literally immerse your audience into your projects and make the experience fun – you just need to embrace the innovative approaches that these new technologies allow! At Delaware Sea Grant, we've been using Google Cardboard viewers to provide virtual "field trips" that give participants the opportunity to experience unusual places, like a scientific ocean drilling vessel and state-of-the art microbial laboratory. Learn how we're combining these virtual experiences with a variety of video offerings and insights from experts to help users understand the complexity, challenges, and importance of the deep biosphere.

Lisa Tossey, Ed.D. Candidate, University of Delaware
Christopher Petrone, Marine Education Specialist, Delaware Sea Grant



**Managing animals for successful
educational programming (Double session, 110 mins)
Strand: Inspire Learning through Nature
Flex Room 109**

1:00 - 2:50 p.m.

The addition of live animals in an education program will enhance its value through maintaining guest attention span, engagement and educational value. This workshop will demonstrate handling and training techniques that will facilitate voluntary behaviors from our animal partners. Through voluntary cooperation, we are able to exhibit natural behaviors at a high level, thus increasing animal's comfort and guest experience. Birds will be the focus of the hands on portion of the workshop.

Phung Luu, Director, Animal Behavior & Conservation Connections.

**Change Your Bait: Easy-to-Implement Strategies to
Elevate the Craft of Teaching
Strand: Connect with your Audience
Science Lab 208**

1:00 - 1:50 p.m.

Your passion for teaching will always be the greatest contribution you can make in your students' lives. This breakout session is intended for iron sharpening iron to elevate the craft of teaching. Easy-to-implement strategies for all learning modalities, techniques in teaching to students' strengths, and helping them become lifelong learners. The strategies and resources you will walk away with today - can be used as early as tomorrow!

Rusty May, Education Consultant & Teacher Trainer, Rusty May Inc.

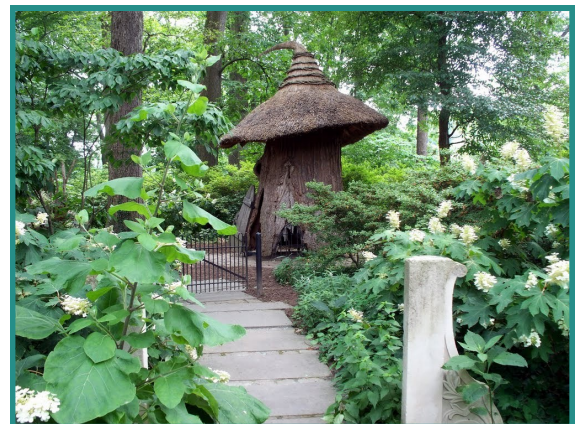
CONCURRENT SESSION IV DESCRIPTIONS: 2:00 - 2:50 p.m.

**Off-site Field Trip Enchanted Woods:
The Magical Children's Garden at Winterthur
Strand: Experience Nature through Play
Meet in lobby at 1:55 p.m.**

2:00 - 2:50 p.m.

Fieldtrip to Winterthur Museum, Garden & Library to explore Enchanted Woods, the children's garden. Fieldtrip will provide inspiration and insight into creating outdoor gardens and play spaces for children.

Suzanne French, Garden
Horticulturist, Winterthur Museum,
Garden & Library



**On behalf of the DAEE Board of Directors,
Thank You for your support of the 8th Annual Statewide
Environmental Education Conference!**

Learning from the Center of the Earth
Strand: Connect with Nature using Science
This session will take place in the gym

2:00 - 2:50 p.m.

Journey to the center of the world in the Delaware Children's Museum's (DCM) Earth Balloon! See the earth from a new perspective and learn how a different view can help to make connections students may not have noticed before. The DCM's travelling exhibit is a standards-based resource available to educators as a hands-on supplement to geography, geology, and other social studies topics. Discover how a 19-foot inflatable globe engages students from Kindergarten to 12th grade in learning about our amazing world, its resources, and its people. Learn by participating in a presentation designed for 1st graders. The Earth Balloon will be accessible during the afternoon networking session.



Rebecca Virden, Field Trip and Outreach Supervisor, Delaware Children's Museum

Using Technology for Environmental Stewardship
Strand: Engage Nature with Technology
Conference Room 108

2:00 - 2:50 p.m.



The Nature
Conservancy
Protecting nature. Preserving life.

In this hands-on session you will learn to utilize two technology platforms developed by The Nature Conservancy to engage people in learning about nature and doing conservation. **Habitat Network** is a citizen science mapping tool used to capture, identify, and share habitat information in your backyard and explore opportunities for improvement using ecologically relevant practices. **Nature Works Everywhere** is a collection of lesson plans with videos aimed at middle and high school students. The curriculum units are relevant across geographies and align with national Next

Generation Science Standards and Common Core State Standards. Topics include water, food, clean air, energy and habitat protection.

Maria Dziembowska, Director, Outreach and Partnerships, The Nature Conservancy

Observe to Learn: Wildlife in your classroom
(20 Minute Session)
Strand: Connect with your Audience
Science Lab 208

2:00 - 2:20 p.m.

Monitoring wildlife with your classroom reaches beyond science curriculum. The Brandywine Zoo has multiple opportunities for teachers to integrate wildlife studies into a multidisciplinary course for students of all ages.

Learn about how observing animal behavior can translate into math, science and language arts skills at the Zoo or in your classroom. Or, get involved with some of the Zoo's Citizen Science programs, such as the American Kestrel Nest Box program, a partnership citizen science program with the Peregrine Fund's American Kestrel Partnership, or take a STEM Lab with your class to learn about the science of animal behavior.



Jacque Williamson, Curator of Education, Brandywine Zoo
Hannah Pretz, School Programs Coordinator, Brandywine Zoo

**Improving nature connectivity through
bird blinds and bird feeders (20 Minute Session)**
Strand: Connect with your Audience
Science Lab 208

2:25 - 2:50 p.m.

Bird blinds are simple wooden sheds or stands that are situated overlooking an area where birds congregate such as a lake, marsh, or woodland, especially where bird feeders have been provided. By sitting quietly inside them and looking out the port-holes people can view birds much closer than would otherwise be possible. This makes blinds an excellent way to get people interested in nature watching and wildlife photography because there is no need for expensive binoculars or a sophisticated camera. Providing bird feeders with different seed content, position, or design also allows people to observe nature's variety since these will attract different species of birds with very different feeding styles.



Ian Stewart, Ornithologist, Delaware Nature Society

CONCURRENT SESSION V DESCRIPTIONS: 3:15 - 3:35 p.m.

Laughter Yoga!
Strand: Experience Nature through Play
Library 125

3:15 - 3:35 p.m.

Are you ready for 20 minutes of total, unreserved fun and play? Are you stressed or feeling overwhelmed by the world? Do you need a good laugh? Laughter Yoga is here for you!

What's Laughter Yoga?

Laughter is a universal language. Laughter yoga is a medically inspired activity that combines the act of unconditional laughter exercises with yogic breathing (Pranayama) for health and happiness. Laughter yoga was created by Dr. Madan Kataria in India in 1995. This unique and fun yoga practice is experienced in a group setting as an exercise in breathing, clapping, playfulness, eye-contact, and body movement that transforms into authentic laughter and joy. Laughter benefits the mind, body and spirit because when laughter is sustained for more than 10 minutes, it increases your intake of oxygen and helps to stimulate your immune system, elevate your attitude, reduces stress, improves creativity and cognitive processes, and helps you to cope with daily experiences of life.

Jen will lead the group through a series of brief clapping, breathing, and playful laughter exercises and meditations that will stimulate better breathing, get us moving and boost our positive energy. No jokes, experience or yoga mats required! Just bring your playfulness to join the fun!

Jennifer Bowman, Certified Laughter Yoga Teacher & Environmental Educator

Engaging Students in Science through Ecology
Strand: Connect with Nature Using Science
Art Room 147

3:15 - 3:35 p.m.

Engaging students in topics that they can personally relate to can be the key to ensuring their success in science classes. I have designed an ecology and environmental conservation course that includes a sequence of unique topics during each of the 3 terms throughout the year. Students that have an interest in any specific ecology topic can enroll in the single term class as an elective. Alternatively, they can enroll for the entire year. Students have the opportunity to enhance their knowledge of conservation issues and gain hands-on experiences with specific field and research skills.

By focusing on these specific ecology topics that students participate in directly, they increase their basic science skills, including data analysis, graph interpretation, mathematical computation, modeling, and scientific communication. Through this innovative class design, students expand their knowledge and share insights of ecological issues through STEM activities, field and research projects, data analysis, and problem-based learning. Students have the opportunity to enhance and refine their science skills and ensure their success in future sciences courses.

Penny Rodrick-Williams, Science Instructor, The Tatnall School

Delaware's Children in Nature Initiative

3:15 - 3:35 p.m.

Strand: Engaging Nature

Conference Room 108



The mission of the Delaware Children in Nature (CIN) Coalition is to improve environmental literacy, create opportunities for children to participate in outdoor experiences, promote healthy lifestyles and provide better access to green space through schools and community programs. Hear what Delaware's CIN Coalition has been up to since its creation in 2010. Learn about current programs, grant work, committees and projects in motion. Discuss what the CIN Initiative means for you and your group and talk about the direction of the Coalition for the future.

Angel Burns, CIN Coordinator, Delaware State Parks

Hands on Gardening and Chickens at Camp!

3:15 - 3:35 p.m.

Strand: Inspire Learning through Nature

Flex Room 109

We are three years into a small gardening and chicken layer program infused into our summer and conference group environmental program. Campers and staff work the gardens, care for the hens and use produce and eggs for their outdoor cooking. The program has really taken off. We would love to share our experience, how we started and how we manage!

Walt Lafontaine, Executive Director
Nancy Lafontaine, Registrar & Conference Programming
Teri Valente, Director
Camp Arrowhead, Carmine Environmental Center



Developing an Outreach Strategy to Target Your Audience

3:15 - 3:35 p.m.

Strand: Connect with your Audience

Science Lab 208

Figuring out how to reach your desired audience can be tough. For Delaware wetland landowners, a three prong approach involving colorful mailers, an interactive ESRI storymap website, and in person open house events was deemed the best way to reach them. This presentation will focus on the thought process that went behind targeting freshwater wetland landowners, and present some tools, tips and tricks for you to use to reach any audience on any budget.

Brittany Haywood, Communications & Outreach Coordinator,
Delaware Department of Natural Resources & Environmental Control

Post-Conference Happy Hour! 5:30 - 7:30 p.m.

Help DAEE raise funds by joining us at:

Bertucci's
3596 Concord Pike,
Wilmington, DE

15% of your bill will be donated to DAEE!

Fundraiser coupons are on back of this program, bring it with you!

PRESENTER BIOGRAPHIES:

Jennifer Bowman is an environmental educator with a knack for artistic and interactive learning opportunities. Jen has over 15 years of experience creating, teaching and facilitating a wide variety of education and outreach programs for local and national non-profit education organizations, universities, and state and federal agencies. Jen holds an M.S. in Environmental Education from Antioch University New England, and a B.A. in Psychology and Behavior from Long Island University. She currently works as an environmental contractor in southern Delaware, and recently accepted a position with the Connecticut River Watershed Council in Massachusetts. Jen is also a Certified Interpretive Guide with the National Association for Interpretation, and a Certified Laughter Yoga Teacher. She currently serves on the DAEE Board of Directors.

Angel Burns became the new Children In Nature Coordinator with Delaware State Parks in November of 2016. Angel has worked in the field of environmental education for the past 20 years. She has served on the Board of the Delaware Association for Environmental Education since its inception in 2008 and is currently the Board Chair. She is a Certified Interpretive Guide and Trainer through the National Association for Interpretation. Angel started working with Delaware State Parks in 1996 while pursuing a degree in Wildlife Conservation and Ecology from the University of Delaware. She has worked at the Brandywine Zoo, Tri State Bird Rescue, Brandywine Creek and Lums Pond State Parks, and the Chesapeake Bay Girl Scouts. For 12 years, she worked as the Nature Center Manager at White Clay Creek State Park and spent the past few years working as a Park Superintendent. Angel has received many honors working as an environmental educator including the Charles E. Mohr Award for Interpretation and Delaware State Parks Employee of the Year in 2007. A native Delawarean, Angel is thrilled to be taking a lead role in Delaware's Children in Nature Initiative. "Something Richard Louv said in a recent speaking engagement resonated with me," Angel says. "Time in nature is not just a benefit for our children, it is a right."

Maria Dziembowska, Director of Community Outreach and Partnerships, has been with the The Nature Conservancy since 2012. Her formal education includes a Masters in Sociology from UCLA and a Bachelors in Political Science from Haverford College which equips her a sociological perspective in solving environmental issues, recently as they relate to urban areas. She lately has been working to start the chapter's Urban Conservation Program. Prior to joining The Nature Conservancy in Delaware, Maria worked at the Cadence Cycling Foundation, a non-profit organization working with Philadelphia and Wilmington schools, to help kids develop important life-skills through the sport of cycling. Prior to that, Maria worked at the Bicycle Coalition of Greater Philadelphia where she organized events to encourage people to bicycle for recreation, transportation and environmental stewardship. In her free time Maria enjoys mountain biking and trail running to stay connected to beautiful places that The Nature Conservancy and other organizations have worked hard to protect over the years.

Lorin Felter is the interpretation and education coordinator at First State National Historical Park. Lorin has been with the National Park Service since 2011, with prior assignments at World War II Valor in the Pacific National Monument in Honolulu, Hawaii, and at the Northeast Regional Office in Philadelphia, Pennsylvania. Lorin has a Masters in American Studies and a Graduate Certificate in Historic Preservation from the University of Hawaii, and a Bachelors in Architecture from New Jersey Institute of Technology.

Suzanne French graduate of the University of Delaware. She has a Bachelor's Degree in Plant Science with a concentration in Ornamental Horticulture. She has been a horticulturist at Winterthur Museum, Garden & Library for nearly 20 years. In those 20 years, she has cared for several different areas of the garden, including managing and caring for Enchanted Woods for the past 5 years.

Brittany Haywood moved to Delaware two years ago from coastal Virginia where her passion for the environment and education first collided. She has worked for nonprofits, universities and government agencies on both the research and outreach side of things promoting water quality, sea grass, wetlands and even early U.S. history. She is currently the Outreach & Communications Coordinator for DNREC's Wetland Monitoring & Assessment Program. In her free time, she loves to get crafty and cruise the open waters.

Amy S. Henry has been an environmental educator for the Maryland Dept. of Natural Resources since 1987. She also has experience teaching at a private, outdoor school and as an elementary school science teacher. Amy holds a B.S. in Natural Resources and Environmental Education from the University of Michigan. For over 30 years she has been working to educate Maryland students and teachers about the importance of nature and conservation. She ran a popular nature based day camp for the Tawes Garden for 18 years. Amy has served on the board of Unity Gardens in Annapolis. She has also been an active board member of the mid –Atlantic region of the National Association for Interpretation. She is passionate about getting Maryland students outdoors and inspiring teachers to integrate nature into their curriculum. She is proud to work in a state that has environmental literacy as a high school graduation requirement.

Steve Kerlin, Ph.D., Community Watershed Engagement & Learning Tools at Wikiwatershed.org

Steve Kerlin, Ph.D. is the Director of Education at the Stroud Water Research Center. He manages the planning, implementation, evaluation, and research of face-to-face and online water education programs to diverse audiences. Dr. Kerlin is a former middle school science teacher and university professor of science and environmental education.

Nancy Lafontaine is a Delaware native and graduate of Brandywine High School. Nancy received her BS from UDel and Masters of Applied Technology from Wilmington U. Nancy taught for years, Kindergarten, 2nd grade and basic skills. She has worked for Camp Arrowhead since the 1970's as Counselor, Aquatics Director and Advisor for environmental education. Currently Nancy is the camp Registrar and supervises the Carmine Environmental Center. She is working hard to make the center and programs available to school programs and groups.

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Walt Lafontaine is a Delaware native and graduate of Milford High School. Walt received his BS from UDel and Masters of Applied Technology from Wilmington U. Walt taught for 36 years, 3rd grade and Tec Lab. He has worked for Camp Arrowhead since the 1970's as Counselor, Waterfront Director, Assistant Director, and Director. Currently Walt is the Executive Director for camp. He is working with his spouse, Nancy, to provide visiting school groups standards based environmental programs at the Carmine Environmental Center.

Lindsay Lancaster is passionate about bringing school vegetable gardens to urban areas as well as outdoor experiential education. Since 2012, she has been working with Healthy Foods for Healthy Kids, where she models garden lessons, trains teachers in garden-based curriculum, coordinates the volunteer program, and assists with PR, fundraising, and strategic planning initiatives. Prior to her position at Healthy Foods for Healthy Kids, Lindsay was a third grade teacher for three years at Green Woods Charter School, a school with an environmentally integrated curriculum. She has an M.S. Ed in elementary education from the University of Pennsylvania, a B.A. in psychology from Haverford College and a certificate in Nonprofit Management from the University of Delaware. Lindsay recently joined the DAEE board and serves as the North American Association for Environmental Education affiliate. She is a member of the School and Community Gardens Committee for the Children in Nature Coalition as well as a member of the Delaware Urban Farm and Food Coalition.

Justin Malin is the Instructional Technology Specialist for the Smyrna school district. Justin has 11 years of classroom experience in primary where he focused on integrating technology into the classroom. As the technology Specialist for the district, he now teaches educators how to incorporate technology. Justin believes that technology is the path to changing the way we educate our students and when used correctly can be a powerful vessel for changing the future of education.

Rusty May is a passionate educator who believes in unconditional positive regard and that learning behaviors must be taught in order for students to succeed and for teachers to experience the satisfaction they so deeply deserve in their chosen profession. May has made over 500 presentations to educators in the last 12 years.

Tara Muenz is the Assistant Director of Education at the Stroud Water Research Center(SWRC). She is responsible for managing stream education programs and outreach deliverables for several grants related to the research at SWRC. She is also the administrator for a global volunteer biological monitoring program, the Leaf Pack Network and was a statewide coordinator for a volunteer water quality program, Georgia Adopt-a-stream. Tara currently serves on the Board for the Pennsylvania Association for Environmental Educators.

Ashley Peebles joined the Delaware Forest Service as a casual seasonal in 2001 after receiving her bachelor's degree in Plant Science from Delaware State University. She worked as the botanist for the Forest Inventory Analysis (FIA) Program for three summers before moving into a permanent position as the Education Coordinator in 2004. Ashley, a native Delawarean, developed a deep connection with nature at a young age and understands the importance of fostering that connection in today's youth. Currently, Ashley serves as Delaware's Project Learning Tree (PLT) Coordinator and manages two education centers at Blackbird and Redden State Forest. Ashley is a founding member of DAEE and currently serves as Treasurer. Ashley coordinates the Smokey Bear Wildfire Prevention Program for Delaware and in 2009, was awarded the Bronze Smokey, a national award for outstanding public service in wildfire prevention.



Christopher Petrone is the Marine Education Specialist with Delaware Sea Grant, which is housed within UD's College of Earth, Ocean, and Environment. Based at the UD Hugh R. Sharp Campus in Lewes, Chris conducts professional development opportunities for classroom teachers and informal educators in ocean and climate science. He also works with classrooms and informal students groups, such as the Boy/Girl Scouts, to increase environmental and ocean literacy and access to ocean science research. Chris has a B.S. in Biology from Washington College and an M.S. in Marine Biosciences from the University of Delaware. Prior to his current position, he has been a classroom teacher, commercial oyster farmer, and a Marine Education Specialist with Virginia Sea Grant and the Virginia Institute of Marine Science.

Hannah Pretz is the School Program Coordinator at the Brandywine Zoo. She spends her time teaching and developing school programs revolving around conservation and "making room for wildlife." Currently a student enrolled in the Global Field Program through Miami University and the Cincinnati Zoo, her graduate studies focus on STEM programs and using field methods in school programming in informal science settings like Zoos and Aquariums. Observe to Learn: Wildlife in your classroom

Nora Reynolds is the natural resources intern at First State National Historical Park through a partnership with the Student Conservation Association. She works with park staff, volunteers, and local partners to manage the extraordinary natural resources in Beaver Valley. Nora is a recent graduate of the University of Delaware. Her time as a student nurtured much love for this small wonder of a state and as a proud Blue Hen, she is particularly honored to now work with the Delaware community to conserve this special area.

Penny Rodrick-Williams began teaching Biology and Ecology as a graduate student at the University of Wisconsin-Madison while working towards her Masters of Science in Wildlife Ecology. She taught a variety of courses at two campuses of the University of Wisconsin before moving to Delaware. For 4 years, Penny taught Wildlife Conservation and Ecology at the University of Delaware before beginning at The Tatnall School. Now, in her 9th year at Tatnall, she is very excited to have the opportunity to teach Ecology and Environmental Science classes to engage high school students in the environment around them.

Melissa J. B. Rogers is the Education Coordinator on the MADE CLEAR project, an NSF-funded project focused on climate change education in Delaware and Maryland. In support of MADE CLEAR, she has designed and facilitated multi-day in-person, blended, and strictly on-line Climate Change Academies for educators in the two states as well as stand-alone one-day workshops and evening webinars on the intersections of climate change and agriculture, the ocean, and computer and physical models. More information about the Academy is available at <http://www.madeclear.org/k-12-education/>. She has classroom teaching experience at the high school, community college, and four-year college levels, most recently physics, engineering, and research methods at Laurel School in Shaker Heights, Ohio. Prior to that, she worked on a variety of educational outreach activities for Case Western Reserve University, NASA, and several Ohio school districts. This work included development of classroom products, facilitation of summer academic programs, and creation and delivery of teacher professional learning workshops including an NSF-funded MSP program and many years on a PD team for the JASON Expeditions. Her educational outreach work started while a Program Scientist at NASA working within the microgravity sciences program. She has BS and MS degrees in Geophysics from Virginia Tech where her focus area was regional earthquake seismology.

Nancy Striniste, founder and principal designer at EarlySpace, is a landscape designer and former teacher. Nancy's passion is for creating spaces that nurture and heal— both the earth and the people on it— spaces that draw people outside, connect them to nature and nourish their souls. Her thriving design practice includes the creation of sustainable natural play and learning spaces for early childhood programs, public and private schools, public parks, and private residences throughout the mid-Atlantic. She is committed to community involvement in her design process and often in implementing her designs. You can see her work at www.earlyspace.com or on EarlySpace's Facebook page.

Ms. Striniste received her Master's Degree in Sustainable Landscape Design from George Washington University and a BS in Education from Wheelock College. She has studied design and children's spaces at the College of Design at North Carolina State University, Tufts University and Harvard Graduate School of Design. She is on the board of NoVA Outside, an alliance of environmental educators; and a member of the Community Built Association. She serves on the Natural Playspace Workgroup of the Maryland Governor's Commission for Children and Nature.

Ian Stewart is an ornithologist at the Delaware Nature Society conducting public bird banding sessions twice weekly. This opportunity gives people the chance to view birds up close, educating them about bird biology and how differences between species are related to their ecology. He is always looking for new ways to get more people and particularly new audiences interested in birds and their habitats, partly with a view to emphasizing the importance of conserving these habitats for future generations.

Lisa Tossey is currently a doctoral candidate at the University of Delaware, where she is focusing on using educational technology in science outreach. As part of that work, she supports the Delaware Sea Grant College Program's digital outreach efforts, producing engaging educational videos, story maps, and virtual reality experiences. She completed her undergraduate work in biology and chemistry and has a master's degree in multiplatform journalism from the University of Maryland's Philip Merrill College of Journalism.

Teri Valente is a Delmarva native and graduate of James M Bennett High School. Teri received her BA in Outdoor Ministries and Environmental Education from Catawba College. She began working on summer staff at Camp Arrowhead in 1995, came on year-round staff as Program Director in 2008, and currently serves as Director- with nearly 20 years experience in Youth Ministry as well. Camp Arrowhead, located on the Rehoboth Bay in Lewes, is a co-ed residential summer camp serving students entering grades 2-11, a day camp program for local children entering grades 2-5, and a conference center from mid-August to June.

Rebecca Virden graduated from the University of Delaware majoring in International relations with minors in Geography and History. Prior to working at the Delaware Children's Museum, Rebecca's love for teaching grew as a sailing instructor at Camp Arrowhead in Lewes, Delaware. Her own passions of learning about any and every topic helps her connect to students from diverse backgrounds.

Jacque Williamson is the Curator of Education at the Brandywine Zoo. She spent her graduate studies researching how to integrate animal behavior into conservation programming, and ties this course of curriculum into many of the advanced programs the Zoo offers. In 2014, she started the Zoo's first in-situ project focusing on conservation of the American Kestrel, an endangered falcon in Delaware, which is developing a citizen science focus for 2017.

Barbara Woodford is the Interpretive Programs Manager at White Clay Creek State Park. Barbara has been with Delaware State Parks since 2002, with prior interpretive management at Brandywine Creek State Park and Wilmington State Parks. Barbara has a Masters of Education from Widener University and Bachelors of English/Communications from Albright College. She is a National Association of Interpretation Certified Interpretive Trainer and Certified Interpretive Manager.





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Delaware Association for Environmental Education

In 2008, representatives from environmental organizations and providers throughout Delaware recognized the need for an environmental education association. As a result, the Delaware Association for Environmental Education (DAEE) was formed. Our mission is “to promote environmental and outdoor education to facilitate positive community impact on conservation and sustainability of Delaware’s resources.” Using the environment as the basis for study can improve student achievement, reduce behavioral problems, and connect students to tangible, real-world topics. DAEE is governed by a Board of 10-20 Directors and is an affiliate of the North American Association for Environmental Education (NAAEE). DAEE is now a 501(c)(3) organization! Thank you to dedicated board members for making this happen in 2016!



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Submissions of content for newsletter: DAEEonline@gmail.com

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