

2021-2022 SEE PROGRAM NONPUBLIC SEE SEMINARS

NPES - Elementary	Grades 4-6
NPMS - Middle School	Grades 6-8
NPHS - High School	Grades 9-12

F2F = Face to Face (in person)

NPES - The Wonder of Wetlands (F2F)

Date: Thursday, September 30, 2021 (weather backup date: October 18, 2021)
 Seminar Time: 10:00 AM - 2:00 PM
 Location: Lancaster County Central Park, Pavilion #11, 733 Williamson Road, Lancaster, PA
 Presenter: Lisa J. Sanchez, Park Naturalist
School Participation Deadline: September 24, 2021
Student Registration Deadline: September 29, 2021

Description of Seminar: Park Naturalist Lisa Sanchez will offer SEE students a hands-on experience in the wetlands surrounding the Lancaster County Environmental Center. The best way to learn about this fascinating habitat is to become immersed in it. So students should come prepared to get in the water and discover life in the creek. They will collect macroinvertebrates, learn about their life cycles and evaluate the health of the water. A field microscope will allow students to get an up close look at the life existing within the water. Through time spent exploring the wetlands, students will gain a greater understanding of this habitat's importance to the health of the environment. In addition to sturdy shoes for hiking, everyone should bring an old pair of sneakers or water shoes that can be worn in the creek. Dress for a lengthy outdoor experience!

NPMS - The Historic Conestoga River (F2F)

Date: Thursday, October 7, 2021
 Seminar Time: 9:00 AM - 1:30 PM
 Location: Lancaster County Central Park, Pavilion #11, 733 Williamson Road, Lancaster, PA
 Presenter: Lisa J. Sanchez, Park Naturalist
School Participation Deadline: September 28, 2021
Student Registration Deadline: October 6, 2021

Description of Seminar: The Susquehanna River often gets more attention, but how much do you know about the Conestoga River which runs through Lancaster County? This seminar will look at the deep history of this shallow river. How has the river changed since the Native Americans were living along its shores or since Robert Fulton tested his steamboat in its waters? Working with Park Naturalist Lisa Sanchez at Lancaster County Central Park, SEE students will hike along the Conestoga, visit an archeological site in the park, learn about the wildlife that rely on a clean river environment, and explore the recreational and business history of the river. Through our discussion, we'll look at the mills and covered bridges that served such vital functions for the expanding Lancaster community. This seminar will be interesting to students who enjoy outdoor environments and local history. Many archived newspaper articles document the history of the Conestoga River. This seminar might spark your interest in more research or a future kayak adventure! Dress to be outdoors. Sturdy shoes that can get **wet** will be required.

NPHS/HS - The Historic Conestoga River (F2F) (combined with public high school students)

Date: Tuesday, October 19, 2021

Seminar Time: 9:00 AM - 1:30 PM

Location: Lancaster County Central Park, Pavilion #11, 733 Williamson Road, Lancaster, PA

Presenter: Lisa J. Sanchez, Park Naturalist

School Participation Deadline: October 6, 2021

Student Registration Deadline: October 15, 2021

Description of Seminar: The Susquehanna River often gets more attention, but how much do you know about the Conestoga River which runs through Lancaster County? This seminar will look at the deep history of this shallow river. How has the river changed since the Native Americans were living along its shores or since Robert Fulton tested his steamboat in its waters? Working with Park Naturalist Lisa Sanchez at Lancaster County Central Park, SEE students will hike along the Conestoga, visit an archeological site in the park, learn about the wildlife that rely on a clean river environment, and explore the recreational and business history of the river. Through our discussion, we'll look at the mills and covered bridges that served such vital functions for the expanding Lancaster community. This seminar will be interesting to students who enjoy outdoor environments and local history. Many archived newspaper articles document the history of the Conestoga River. This seminar might spark your interest in more research or a future kayak adventure! Dress to be outdoors. Sturdy shoes that can get **wet** are recommended.

NPES - Sphero Bolt Mazes! (F2F)

Date: Tuesday, November 2, 2021

Seminar Time: 10:00 AM - 2:00 PM

Location: Conference and Training Center at IU13, Burle Business Park, 1020 New Holland Avenue, Lancaster, PA

Presenter: Judy Trusz, IU13 Nonpublic STEM Consultant

School Participation Deadline: October 19, 2021

Student Registration Deadline: October 28, 2021

Description of Seminar: Student interest in coding continues to grow. There is a good reason for that—it is challenging, creative, exciting, and fun. It is also vitally important as a new language in the digital age. Logic and math skills are developed as well as problem solving abilities. It often requires a “Fail Forward” attitude as mistakes are made and persistence is required. This SEE Seminar will allow students to have a hands-on learning experience with others who have an interest in coding. Working together will give students a chance to meet new people and communicate to solve problems—all while having fun! Participants will learn to block code a Sphero Bolt in order to navigate a maze or they will have a chance to create a new one. They will see how infrared communication allows Spheros to “talk” to each other. Careers in computer programming are plentiful, so learning to code at a young age helps elementary students prepare for the future. Join us for a dynamic day of learning!

NPES - Poetry of Place (Online)

Date: Thursday, December 2, 2021

Seminar Time: 10:00 AM - 11:30 AM

Location: Online via ZOOM

Presenter: Jenny Hill, Arts Educator

Registration Deadline: November 23, 2021

Description of Seminar: *Place* is many things in poetry. It might be a geographical location, an emotional state, an idea, something as specific as a building or a river, and it can even be an imagined and dreamlike space. Poems have a magical way of combining all of these ideas to create unforgettable images and moods. In this session we'll work together to develop poems as well as explore the creative process that is involved. Get ready to do a little doodling, some writing, and collaborative play to discover our sense of place in the world. We'll focus on how imagery works as a gateway to the imagination of your reader, and learn about line breaks and musicality in poems.

NPMS - Finding a Voice (Online) *(combined with public middle school students)*

Date: Friday, December 10, 2021

Seminar Time: 10:00 AM - 11:30 AM

Location: Online via ZOOM

Presenter: Jenny Hill, Arts Educator

Registration Deadline: December 7, 2021

Description of Seminar: Did you know that the word *monologue* is made up of the Greek roots for *alone* and *speak*? Monologues have a very specific purpose in storytelling. In a monologue, a character gives the audience more details about themselves or about the plot of the story being told, or both. They are a great way to share the internal thoughts or backstory of a character, and they are fun to write. In this session, we'll explore this literary device that has been used since ancient Greek theatre. We'll play a little to warm up and loosen up our writing muscles, collaborate to generate ideas, and write, write, write! If you love stories, people, observing, listening, and playing with words -- then join us!

NPES - Microscopic Miracles (Online)

Date: Tuesday, January 11, 2022

Seminar Time: 1:00 PM - 2:30 PM

Location: Online via Zoom

Presenter: Lisa J. Sanchez, Park Naturalist, Lancaster County Central Park

Registration deadline: Friday, January 7, 2022

Description of Seminar: As we embrace the season of winter, this online seminar will offer a chance to explore the science and artistic nature of snowflakes. We'll consider whether it is true that no two snowflakes are alike. We will investigate the intricacies of an individual flake, discussing things like symmetry and the structure of ice crystals. We will also take an interesting look at how people have captured the beauty and wonder of snow in color photographs, starting with Wilson Bentley (1865-1931). Naturalist Lisa Sanchez loves snow and is eager to share her enthusiasm with you! Come learn about what inspired Wilson Bentley, who devoted years to photographing snowflakes, to say this, *"Under the microscope, I found that snowflakes were miracles of beauty; and it seemed a shame that this beauty should not be seen and appreciated by others. Every crystal was a masterpiece of design, and no one design was ever repeated. When a snowflake melted, that design was forever lost. Just that much beauty was gone, without leaving any record behind."* If you love snow, science, art, photography, or learning from Lisa Sanchez, this seminar is for you!

NPMS - Civil Discourse in “The Room Where It Happened” (Online)

Date: Tuesday, January 25, 2022
Seminar Time: 1:00 PM - 2:30 PM
Location: Online via ZOOM
Presenter: Stephanie Townrow, Ph.D. student and former director at LancasterHistory.org

Registration Deadline: Friday, January 21, 2022

Description of Seminar: “No one else was in the room where it happened”... but you can be! Fans of the musical “Hamilton” are already familiar with the Compromise of 1790. Alexander Hamilton, James Madison, and Thomas Jefferson walked into a room and walked out with Hamilton’s financial Assumption Acts and a new national capital in Washington, D.C. In this interactive seminar led by historian and educator **Stephanie Townrow**, you will go back in time to 1790s New York City to develop your own political compromise, deciding what you stand for and what you are willing to sacrifice. Along the way, you will learn the art of deliberative discussion, using George Washington’s *Rules of Civility* as a framework for respectful and productive civil discourse. You will come away with a greater understanding of “the art of the compromise,” of civil discussion, and of American history. You’ve gotta be in the room where it happens!

NPMS – Skills for Bridging the Divide - Braver Angels (Face to Face) *(combined with public high school students)*

Date: Wednesday, January 26, 2021
Seminar Time: 9:00 AM - 1:30 PM
Location: The Conference and Training Center at IU13, 1020 New Holland Avenue, Lancaster, PA

District Participation Deadline: November 17, 2021

Student Registration Deadline: December 1, 2021

Description of Seminar: Do you avoid or dread conversations with friends or family members whose views differ from your own? You may worry that any attempts to discuss strong differences will devolve into arguments and animosity and result in hurt feelings or anger. Rudeness, stereotyping, disdain, and even hatred abound in our current public conversation. And sometimes we find ourselves mimicking this during our private conversations.

What if we could learn to...

- listen to understand the other side’s point of view, even if we don’t agree with it?
- respectfully engage those we disagree with, looking for common ground and ways to work together?
- keep relationships bigger than issues?

At this event, Braver Angels facilitator Jerry Silberman will lead a team in teaching skills for setting a good tone for a conversation, for listening, for speaking, and for handling difficult moments. After each skill presentation, you will have an opportunity to practice the skill in a pair with someone of your same political persuasion—red or blue. “Reds” lean conservative and tend to vote Republican. “Blues” lean liberal and tend to vote Democratic. If you don’t know your political persuasion or fall somewhere in the middle, you can choose a side for purposes of practicing the skills.

We may also have time to try out the Braver Angels debate format – a different kind of debate in which a group of people think together, listen carefully to one another, and allow themselves to be touched and perhaps changed by each other’s ideas.

NPMS - Don’t Worry - B.Happy! (Online) *(combined with public middle school students)*

Date: Wednesday, February 2, 2022
Seminar Time: 9:00 AM -10:30 AM
Location: Online via ZOOM
Presenter: Jon Weed, B.Happy Founder

Registration Deadline: January 31, 2022

Description of Seminar: Do you have creative ideas for a product you'd love to market? Would you like to learn more about what is involved in starting a small business and helping it grow? Do you love peanut butter? If you've answered yes to any of these questions, this is a seminar you'll enjoy! Come spend some time with Jon Weed who, with his wife and three children, started B.Happy in 2013. Mr. Weed, a DePauw University economics graduate, wanted his children to understand how to run a small business; and they continue to be amazed with the success and growth of B.Happy! Come learn why B.Happy peanut butter is meant to be eaten with a spoon (although there are countless delicious ways to enjoy it). Started in Zionsville, Indiana, B.Happy is now selling in large stores like Target and online throughout the United States. Many important lessons have been learned on this journey into entrepreneurship- you can hear them and ask questions. Join us to hear how a small family venture became what Mr. Weed and his family describe as a "lemonade stand on steroids."

NPHS/HS - How Life Happens ... (Online) *(combined with public high school students)*

Date: Wednesday, February 9, 2022
Seminar Time: 9:30 AM - 11:00 AM
Location: Online via Zoom
Presenter: Steven Courtney, Award-winning songwriter and singer

Registration Deadline: Monday, February 7, 2022

Description of Seminar: Performing songwriter, **Steven Courtney**, influences others through a lens of creativity, kindness, and love. His talent for writing and performance has allowed him to build a career that focuses on what he values in life. Come spend time with Steven as he reflects on lessons that have influenced his career. Developing, re-inventing, and changing have been vital during his 30 years of self-employment as a musician, producer, and content creator. This seminar will be sprinkled with songs and humorous stories and a chance for you to share questions or comments. If you have a passion for music, poetry, story-telling, or simply relish life lessons with a flair, this seminar is for you. You won't be disappointed! Steven's hope is that you keep an open mind to change and unexpected possibilities because life happens....

NP Gr 7-9 - Heart Map (Online)

Date: Thursday, February 10, 2022
Seminar Time: 10:00 AM - 11:30 AM
Location: Online via Zoom
Presenter: Jenny Hill

Registration Deadline: Wednesday, February 9, 2022

Description of Seminar: What's in your heart? Love and despair, joy and sorrow? Learn how to put it on the page with an insightful technique that creates a map of every hill and valley of your emotional landscape. If you've ever looked at the map inside an epic fantasy novel, or played a role play adventure game, you've encountered a fanciful geography with details fitting the story. Do you remember the Pit of Despair and the Fire Swamp from *The Princess Bride*?

In this session you'll be drawing a map, using your own heart as a guide. What is your emotional landscape? With two handy lists of geographical and emotional vocabulary, you can mix and match to uncover your own inner world.

What you'll do in this workshop:

- ✘ Learn fundamental cartographic drawing with some easy exercises
- ✘ Assess your emotional landscape using the Guide to Emotional Place Names
- ✘ Draw your heart map, journal about your map, and share your insights with the group

NPHS - Being a Part of a Healthcare Team (F2F) *(combined with public high school students)*

Date: Tuesday, March 8, 2022

Seminar Time: 9:00 AM - 12:00 PM

Location: Pennsylvania College of Health Sciences, 850 Greenfield Road, Lancaster, PA

School Participation Deadline: February 15, 2022

Student Registration Deadline: February 22, 2022

Description of Seminar: Healthcare has become the largest source of jobs in the United States, meaning jobs in this field are in high demand. From a nurse to a healthcare administrator to a surgical technician, the options are plentiful. Why not see if you have more than just an interest in helping people? Pennsylvania College of Health Sciences is partnering with IU13 to offer high school students an explorative journey through our State-of-the-Art simulation lab, an educational experience on our health care degree programs and playful hands-on health care lessons for this 3-hour event. **Masks are mandatory** and comfortable close-toed walking shoes are encouraged.

NPMS – The Noble Art of Juggling (F2F)

Date: Thursday, March 10, 2022

Seminar Time: 9:00 AM -12:00 Noon *(optional supervised lunch time til 12:45-1:00 PM)*

Location: IU13, Burle Business Park, 1020 New Holland Avenue, Lancaster, PA

Presenter: Chris Tamburro, multi-talented circus performer

School Participation Deadline: March 1, 2022

Student Registration Deadline: March 8, 2022

Description of Seminar: Juggling is one of the first things that comes to mind when we think about the circus. It's an artform that has been around for centuries and has entertained audiences in every corner of the world. It will take time but with practice and repetition, you too can master the noble art of juggling. In this seminar we will learn a few basic patterns, a little philosophy, the science behind learning new skills, some of the history of juggling, and its contributions to society. Whether you want to become an expert juggler or just enjoy an introduction to a new skill, join us for this seminar.

NPES – Ozobot Travels (F2F)

Date: Monday, March 14, 2022

Seminar Time: 10:00 AM - 2:00 PM

Location: Conference and Training Center at IU13, Burle Business Park, 1020 New Holland Avenue, Lancaster, PA

Presenter: Judy Trusz, IU13 Nonpublic STEM Consultant

School Participation Deadline: February 23, 2022

Student Registration Deadline: March 4, 2022

Description of Seminar: Student interest in coding continues to grow. There is a good reason for that—it is challenging, creative, exciting, and fun. It is also vitally important as a new language in the digital age. Logic and math skills are developed as well as problem solving abilities. It often requires a “Fail Forward” attitude as mistakes are made and persistence is required. This SEE Seminar will allow students to have a hands-on learning experience with others who have an interest in coding. Working together will give students a chance to meet new people and communicate to solve problems—all while having fun! Participants will learn to block code a Sphero Bolt in order to navigate a maze or they will have a chance to create a new one. They will see how infrared communication allows Spheros to “talk” to each other. Careers in computer programming are plentiful, so learning to code at a young age helps elementary students prepare for the future. Join us for a dynamic day of learning!

NPMS - Wildlife Food Chain and Birds of Prey (F2F)

Date: Tuesday, March 15, 2022
Seminar Time: 9:00 AM - 1:30 PM
Location: Lancaster County Central Park, Environmental Center, One Nature's Way, Lancaster, PA
Presenter: Lisa J. Sanchez, Park Naturalist

School Participation Deadline: March 1, 2022

Student Registration Deadline: March 11, 2022

Description of Seminar: A visit to the Lancaster County Parks Environmental Center is always educational and interactive! Park Naturalist, Lisa Sanchez, creates seminars that get students excited about our natural world. This seminar will focus on wildlife and birds of prey (including owls). Students will look at how local species are concerned with obtaining energy - energy to keep going, energy to grow, energy to reproduce, and energy for survival. Starting with analyzing their own breakfast, students will examine the flow of energy in living systems as represented in food chains. Students will discover the role of producers, consumers, herbivores, carnivores, and omnivores, as they build an actual food web. Students will benefit from an up-close and hands-on experience. Students should dress to be both indoors and outdoors throughout the seminar. Weather permitting; the surrounding habitat will be explored for signs of food chains in action!

NPMS - Winter to Spring: Seasonal Transitions in Nature (F2F)

Date: Friday, March 18, 2022
Seminar Time: 9:00 AM - 1:30 PM
Location: Lancaster County Central Park, Environmental Center, One Nature's Way, Lancaster, PA
Presenter: Lisa J. Sanchez, Park Naturalist

School Participation Deadline: March 1, 2022

Student Registration Deadline: March 16, 2022

Description of Seminar: What do animals and birds do as winter winds to an end and spring approaches? What survival skills do they need and what instincts guide their behavior? March can be a beautiful time to walk through the woods and contemplate this transition from winter to spring. Join Naturalist Lisa Sanchez at the Lancaster County Environmental Center for an in-depth look at the survival instincts of wildlife and ponder how their needs change from one season to the next. As we focus on what different species eat and how they behave during the cold winter months, we will also look ahead to wildlife preparations for spring. This interactive day will give us a chance to meet new people, celebrate the seasons, and study the natural environment with a variety of hands-on experiences. Dress to be outdoors for much of the seminar. Layers are recommended!

NPMS/HS – How to Create Better Solutions (Online) *(combined with public high school students)*

Date: Friday, March 25, 2022
Seminar Time: 12:30 PM – 2:00 PM
Location: Online via Zoom
Presenter: Amber Kane

Registration Deadline: March 23, 2022

Description of Seminar: College expectations and career options are always changing; however, we know that the ability to think critically and creatively to solve both big and small problems is a consistent need that will serve you throughout your lifetime. In this seminar, we'll explore where ideas come from and uncover how you can increase your ability to develop ideas quickly to solve problems and create innovative solutions. Attend this seminar and learn simple practices that will supercharge your ability to solve problems.

CONTACT:

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