



Eastern Branch EntoQuest Summer Meeting 2022



Northern Virginia 4-H Center
600 4h Center Dr, Front Royal, VA 22630
September

Welcome to the first EntoQuest Summer Meeting of the Eastern Branch, ESA!



Ashley Kennedy-
President of Eastern
Branch, ESA

Welcome to EntoQuest 2022! I'm so excited to see you at our inaugural Eastern Branch summer meeting.

The summer meeting concept developed as branch leaders realized that there was something missing from our annual meeting—or at least an opportunity to complement it with a different kind of gathering. We felt that professional development for entomologists should go beyond the traditional academic conference. As valuable as conferences are, there are certain skills you just can't learn from watching PowerPoint presentations.

The workshops in our program are designed to provide immersive, hands-on experience in a variety of entomological techniques and subdisciplines that members may not otherwise have access to. Moreover, they will provide opportunities for students, early career professionals, and established professionals to get to know each other in a more relaxed setting than a classroom or convention center.

Intuitively, it makes sense that learning about insects should come more naturally when convening in a natural setting (complete with meadow, deciduous forest, and freshwater stream habitat, all teeming with insect diversity).

It is my hope that friendships that begin at EntoQuest will develop into rich collaborations in the future. I look forward to meeting you, learning from our talented team of volunteer instructors, and helping to plan future years' EntoQuest adventures in other scenic Eastern Branch locales.

Now let's go collect some insects!

EntoQuest 2022 Leaders



Bill Lamp- Committee
Chair, UMD



Tom Kuhar- Program
Chair, VA Tech



Eric Day- Local
Arrangements, VA Tech



Erin Hitchner- Treasurer,
EB ESA, Syngenta

Dedication

In 1929, the Northeast Entomologists of the Entomological Society of America held their final summer meeting (until now) after conducting summer meetings from 1920-1929 before creating the Eastern Branch. In their meeting minutes for this last meeting, they noted that “the desirability of a summer meeting was discussed and it seemed to be the general opinion that such a session should be a leisurely one, with ample time for discussion, in beautiful surroundings.” Now, 93 years later, we are able to restart these summer meetings and make their wish come true.



Code of Conduct

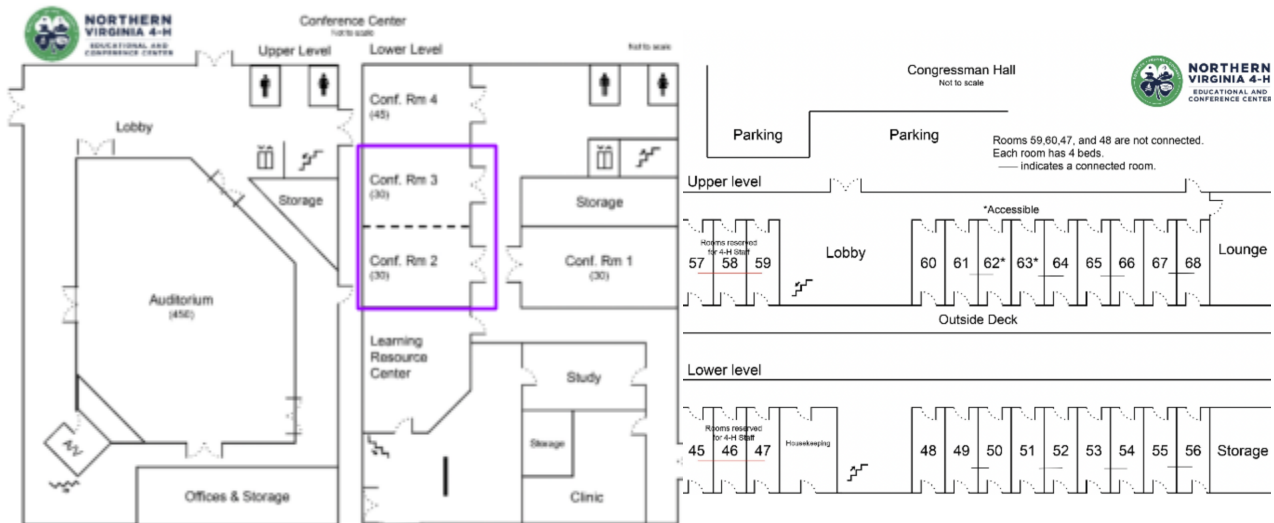
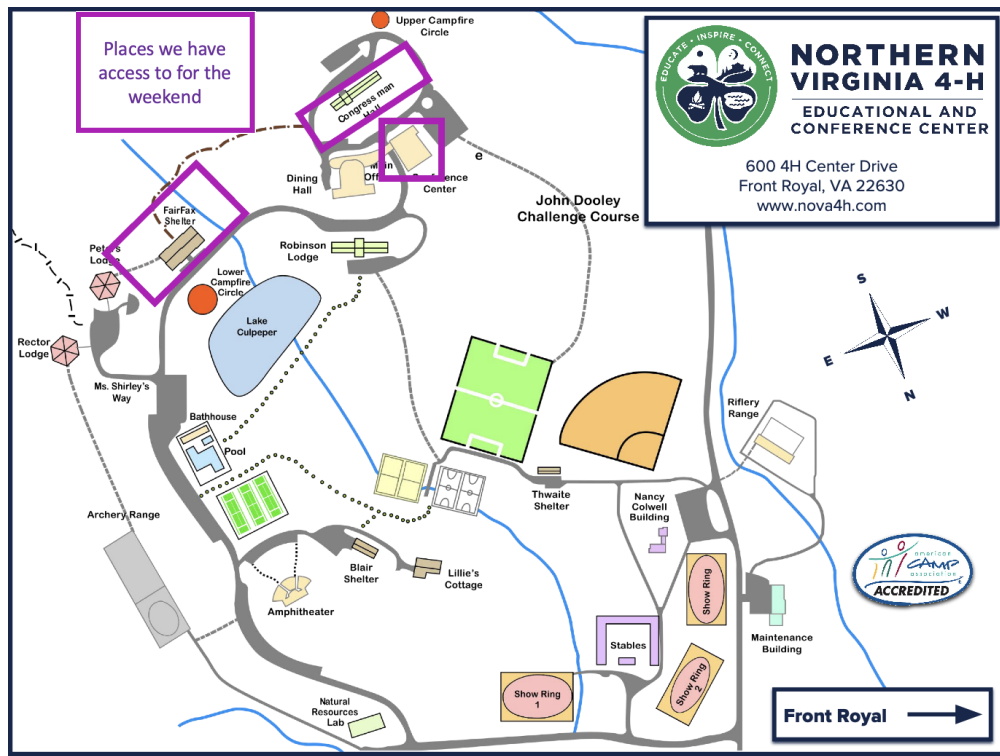
By attending the 2022 Eastern Branch Meeting, you agree voluntarily to abide by our ethics policy. The full policy may be found online at entsoc.org/conduct. If you need to file a complaint, please contact Stacie East, ESA's Director of Diversity, Equity, and Inclusion at +1 (301) 731-4535 x3030 or seast@entsoc.org

Current COVID-19 Guidelines for Virginia

Proof of vaccination is not currently required, but may exist at individual businesses; patrons should check with each business individually to know what to expect. Our expectation is that we will all practice protocols that reflect this “spirit of respect and care” for our community throughout the event. The Eastern Branch Executive Committee encourages attendees to wear a well-fitting face mask inside all meeting spaces, but it is not required.

*Most importantly, if you are sick, please stay home and contact us at esa@entsoc.org.

Site Information



Housing Information

- Rooms are equipped with bunk beds and mattresses but no sheets, blankets, or pillows so bring what you need.
- Hand soap is also not provided so bring your own

- Please check in at the conference center when you arrive (if you arrive after 7 PM please come to the fire ring to register)

Northern Virginia 4-H Rules and Regulations

- Please only use painters tape for signs or posters as all other tapes can damage surfaces.
- No paint permitted in the conference center unless washable. Please clean up before departure.
- Meal times promptly at 8am Breakfast, 12pm Lunch, and 5:30 Dinner. Please note the serving lines can only hold food at safe temps for approximately 45 minutes to an hour so the serving line will be removed 45 minutes after the scheduled start time. For this reason it is important to arrive at meals on time please.
- The Conference Center will be shared with another group during our visit. The other group will be using the Auditorium (upper level of the conference center) and Library (not labeled/located to the left of the study and clinic). A floor plan of the conference center is attached for your reference.
- A bundle of wood will be left at the upper campfire circle, next to our lodge for our use.
- Please do not leave trash cans or trash outside. Please pull trash cans into the shelter bathroom, kitchen, or dumpster next to the shelter to keep the woodland friends from making a mess.
- When departing, please make sure all doors and windows are closed.
- Alcohol is permitted on the campus but it must remain in your room

Program Presentations and Activities

Friday – September 9, 2022

4:30 – 7:00 PM	Arrival, check in, name badge, poster set up at conference center
5:30 – 6:30 PM	Dinner – Welcome from EB ESA President Ashley Kennedy and Program Committee
7:00 PM	Fire ring meet and greet, sign up for excursions

Saturday – September 10, 2022

8:00 AM	Breakfast – View posters
9:00–11:30 AM	Morning Excursions

	<ul style="list-style-type: none"> ❖ **Option 1: “Collecting aquatic insects” – Tour leaders Bill Lamp (UMD) and Kelly McIntyre (VT) ❖ Option 2: “Spotting the spotted lanternfly” – Tour leader(s): Eric Day (VT), Bob Trumble ❖ Option 3: Open hikes/Insect walk to Fairfax Shelter or Appalachian trail
12:00 – 1:30 PM	Lunch – View posters
1:30 – 2:30 PM	Lessons: <ul style="list-style-type: none"> ❖ Intro to the Seek App – iNaturalist – Tom Kuhar ❖ Demonstrations of various insect collecting techniques – various instructors ❖ **Collecting arthropods of medical importance – Ashley Kennedy and Wil Winter (DNREC)
3:30 PM	Afternoon Excursions <ul style="list-style-type: none"> ❖ Option 1: Afternoon hike “Ants, millipedes, and more – collecting arthropods from the forest” hike – Garrett Harrison, (Virginia Tech), and others ❖ Option 2: Forensic entomology experience – Denise Gemmellaro, Keane University
5:30 – 6:30 PM	Dinner
7:00 PM	Fire ring
8:00 PM	Black lighting for insects

Sunday – September 11, 2022

8:00 AM	Breakfast
9:00 AM	Checkout (by 10 AM)
9:00 AM – 12:00 PM	Bioblitz – VA Smithsonian Conservation Biological Institute, Front Royal, VA Jim McNeil, GMU**
10:00 AM– 12:00 PM	Open hikes/ insect collection**
12:00 – 1:00 PM	Lunch – Poster take down

**Program notes

Outdoor Activities	Please be cautious of the weather and <u>bring hats, sunscreen, rain gear, and plenty of water</u> on any outdoor excursions you do throughout the weekend.
Aquatic Collection	Please <u>bring old sneakers or water shoes</u> (no bare feet!) to collect in streams and/or lakes.

Hikes/Insect walks

There are several locations on the 4-H center campus for short hikes and insect collection but there is also the option to drive to the Appalachian Trail, less than 10 minutes away.



Collection techniques Do you have a method to collect insects that you can share with others? A customized or standard pitfall trap? An apparatus that is useful for pollinators? A sticky trap technique that is easy to use and process? Bring it to EntoQuest and share with your colleagues on Saturday afternoon!

BioBlitz

We will provide all necessary equipment, but attendees are welcome and encouraged to bring their own sweep nets, aspirators, and vials if they would like to. The Smithsonian requires mask wearing indoors and in shared vehicles, so please bring a mask to this event.

Posters

1. Cramer, Maria, (mec@umd.edu) and Kelly Hamby. "How do prophylactic insecticides in Maryland field corn affect early season pests and beneficials?". University of Maryland
2. Gresens, Susan (sgresens@towson.edu), Torbjorn Ekrem, Elisabeth Stur, and Colleen Winters "Population structure of the holarctic chironomid *Cricotopus sylvestris* across a broad geographic gradient". Towson University and Norwegian University of Science and Technology
3. Harrison, Garrett, (harrisonento@vt.edu) and Paul Marek. "A survey of subterranean arthropod diversity in the Appalachian Mountains." Virginia Tech Entomology Department, National Science Foundation Division of Environmental Biology

4. Grajales, Daniela Bermeo, (daniela9630@hotmail.com), Cathleen Doherty, and Denise Gemmellaro. "Detection of heavy metals in Calliphoridae larvae". Biology Department, Kean University, Union, NJ and Inorganic and Chemical Analysis Facility - Environmental and Occupational Health Sciences Institute, Rutgers University, Piscataway, NJ
5. O'Connor, Amanda, (aconnor13x@gmail.com), Gloria Raise, Stephanie Urias, Maria Shumskaia, Nicholas Lorusso, and Denise Gemmellaro. "Fungal succession on decomposing swine carcasses". Biology Department, Kean University, Union, NJ and Natural Sciences, University of North Texas at Dallas, Dallas, TX.
6. Raise, Gloria (gloria.raise@gmail.com), Amanda O'Connor, Nicholas Lorusso, and Denise Gemmellaro. "Effects of Acetaminophen on the development of *Phormia regina* (Meigen) (Diptera: Calliphoridae)". Biology Department, Kean University, Union, NJ and Natural Sciences, University of North Texas at Dallas, Dallas, TX.
7. Totis, Laura, (lauratotis@gmail.com). "It's easier to find bugs when the dog tells you where to look", ACE
8. Park, Yong-Lak, (Yong-Lak.Park@mail.wvu.edu), Xin Li, Chris Hayes, and Richard Turcotte. "Drones, Sensors, and Artificial Intelligence to Detect Insects". West Virginia University.
9. Naharki, Kushal (kn00019@mix.wvu.edu), and Yong-Lak Park. "Aerial detection of tree of heaven for the management of *Lycorma delicatula*". Division of Plant & Soil Sciences, Entomology Program, West Virginia University
10. Greenleaf, Jennifer (jsg00019@mix.wvu.edu), and Yong-Lak Park. "Insects Associated with *Frangula alnus* in North America: Implications for Management". West Virginia University
11. Grajales, Daniela Bermeo (daniela9630@hotmail.com), Dr. Cathleen Doherty, and Dr. Denise Gemmellaro. "Heavy Metal Detection and Quantification on Blow Fly (Diptera: Calliphoridae) Larvae and Potential Forensic Entomotoxicology Applications." Rutgers University, Chemical Analysis Facility Core., Environmental & Occupational Health Sciences Institute., Kean University, Department of Biology.
12. Vance, T Jonathan, (jonathan.t.vance@wilmington.edu), Kendra Cipollini. "Field vs Forest Insect Diversity". Wilmington College, Ohio

EntoQuest 2022 Committee Members

Ashley Kennedy (AChoateKennedy@gmail.com), DNREC, Div of Fish & Wildlife

Bill Lamp (lamp@umd.edu), University of Maryland

Tom Kuhar (tkuhar@vt.edu), Virginia Tech

Erin Hitchner (erin.hitchner@syngenta.com), Syngenta

Katy Evans (katv.ciola@gmail.com), University of Maryland

MAJ Jaree L. Johnson (jaree.i.johnson.mil@mail.mil), Medical Service Corps, US Army

Katie Weglarz (kweglarz@westfield.ma.edu), Westfield St University

Bob Trumbule (Rtrumbule@verizon.net), Annapolis, MD

Eric Day (idl@vt.edu), Virginia Tech

Becca Robertson (rrain@udel.edu), University of Delaware

Amanda Whispell (amanda.whispell@rutgers.edu), Rutgers University

Stefan Jaronski (thebugdoc01@gmail.com), USDA (retired)

Hope Bowman, (hbowman@walthamservices.com), Waltham Pest Services, MA

Denise Gemmellaro (denisucciola@yahoo.com), Kean University, NJ

Sean Boyle (seanboyle@vt.edu), Virginia Tech

Kelly McIntyre (mcintyrek@vt.edu), Virginia Tech

Laura Totis (Lauratotis@gmail.com), ACE

Emergency Contact Information

Ashley Kennedy: (703) 307-4041

Eric Day: (540) 577-1995