

BES Annual Meeting October 16, 2025
Stillmeadow Community Fellowship
5110 Frederick Ave, Baltimore, MD 21229
<https://baltimoreecosystemstudy.org/events/>

Remote viewing:

Topic: BES Annual Meeting

Time: Oct 16, 2025 08:00 AM Eastern Time (US and Canada)

Join from PC, Mac, Linux, iOS or Android: <https://yale.zoom.us/j/95658939606>

Or Telephone : 203-432-9666 (2-ZOOM if on-campus) or 646 568 7788

One Tap Mobile: +12034329666,,95658939606# US (Bridgeport)

Meeting ID: 956 5893 9606

Agenda

8:15 Coffee and Conversation

8:40 Welcome, Introductions, and Announcements

8:50 Opening remarks and context: Matt Rescott, Baltimore City Recreation and Parks

Theme 1: Landscape Contexts- Moderated by Beatriz Shobe

9:15 **Angie Hood, Cary Institute of Ecosystem Studies.** Alan Berkowitz: *Teaching the Critical Zone Through Local Urban Contexts*

9:30 **Matthew Baker, University of Maryland Baltimore County.** Andrew Miller: *The Geomorphic Signature of Urban Landscapes*

9:45 **Mike Alonzo, American University.** Darryn Waugh, Dexter Locke, Matt Baker, BGS. *Monitoring the neighborhood air cooling effect of forest patches using bike-mounted thermometers*

10:00 **Morgan Grove, Yale School of the Environment.** Coauthors: Corinne Bassett, Dexter Locke, Nancy Sonti, Jesse Caputo, Brett Butler, Iris Montague, J. Morgan

Grove. *Urban residential landowner interest in emerging urban wood product markets: Results from a multi-city survey*

10:15 **Anna Mothersole, University of Maryland, Baltimore County.** Dr. Christopher M. Swan: *Leaf litter processing rates shift in response to human-modified land cover in freshwater ecosystems.*

10:30 Break

Theme 2: Water, Water everywhere - Moderated by Morgan Grove

10:45 **Patrick J. Terhune, UMBC, CBEE & CUERE.** Mary McWilliams, Claire Welty, Joel Moore, Dan Bain: *Analysis of potential sulfate sources in headwater streams in Dead Run watershed*

11:00 **Robert Shedlock, Baltimore Urban Waters Partnership.** *Baltimore Urban Waters Flood Team Workgroup on Watershed Governance*

11:15 **Peter Groffman, City University of New York.** Alexander J. Reisinger, Ruoyu Zhang, Dexter Locke, Andrew Rosenberg, David A. Newburn, Jonathan M. Duncan, Lawrence E. Band, J. Morgan Grove, Andrew Miller, Charles Towe: *Sweet spots for restoration in a coastal watershed*

11:30 **Kehinde Bosikun, UMBC, Dept of Chemical, Biochemical and Environmental Engineering.** Joel Moore, Claire Welty: *Investigating mineral weathering in the Dead Run watershed via reactive transport simulation*

11:45 **Ken Belt, Natural History Society of Maryland.** Bronwyn Mitchell-Strong, Joe McSharry, Thayer Young, Jeff Campbell, Glenda Weber: *The Art and Science of Urban Stream Restoration or Do Urban Rivers have Rights?*

12:00 Lunch

We will provide grilled cheese sandwiches and apples. Donations welcome but not necessary.

We encourage a walk on the trails through Stillmeadow Peace Park or viewing posters.

Theme 3: Trees! - Moderated by Chris Swan



- 1:15 **Nolan Menanno, American University.** Justin Nowakowski, Shelley Bennett, Bryant Smith, Kajall Hylton. *Spatial Predictors of Urban Tree Mortality in Baltimore*
- 1:30 **Maggie Schaefer, University of Maryland College Park.** Kelsey McGurrin, Sophie McCloskey, Anne-Lucie Pierre, Karin Burghardt: *Examining urban tree health as a method of predicting species-specific climate adaptation.*
- 1:45 **Beatriz Shobe, Johns Hopkins University.** Meghan Avolio: *How The Presence Of Artificially Selected Cultivars Impacts The Genetic Diversity Of Local Urban And Rural Forests*
- 2:00 **Meghan Avolio, Johns Hopkins University.** Kelsey Coates, East Carolina University: *Dis-entangling the impacts of race and wealth on residential yard biodiversity in Baltimore*
- 2:00 Break

Theme 4: Land Management and Wildlife - Moderated by Megan Avolio

- 2:15 **Kerrie Kovalski, Baltimore Green Space:** *If You Want To Go Far, Go Together*
- 2:30 **Daniel Pratson, University of Maryland:** *What's going on in the woods in backyards? Evaluating the impacts of online extension programming on natural areas management*
- 2:45 **Maggie Proctor, Yale School of the Environment:** *Strategic Planning for the Stillmeadow / Hillside Parks Collaborative*
- 3:00 **Shane Boehne, Baltimore City Recreation and Parks:** *Deer Management Planning in Baltimore City*
- 3:15 **Sylvana Ross, Cornell University.** Dr. Corrie Moreau - Cornell University. *From Redlines to Ant Trails: Racism's Influence on Urban Wildlife Adaptations*
- 3:30 **Sarah D'Adamo, Baltimore Green Space.** Clare Maffei: *Pollinator Power!: A Pollinator Habitat Pilot in Baltimore City*

- 3:45 **Aaron DeLong, Towson University:** *Critical thermal limits and locomotor performance of invasive Northern Snakeheads*
- 4:00 *Posters***
- 4:50 Closing Remarks
- 5:00 Adjourn and keep the discussion going at the Difference Makers Center of West Baltimore, starting at 5:30

5:30 PM – 8:00 PM **Keystone Community-Based Science Convening**

 Difference Makers Center: 3639 Liberty Heights Ave, Baltimore, MD 21215
 Wednesday, October 16th, 2024

Join us for an evening of community, learning, and collaboration at the Keystone Community-Based Science Convening.

This gathering will highlight research projects that are driving scaled community outcomes in Baltimore and beyond. Hear directly from community organizations and their research partners as they share stories of successful partnerships that are shaping healthier, more sustainable futures.

✨ Come connect with neighbors, researchers, and change-makers working together at the intersection of science and community impact.

 Food and drinks will be provided!

We look forward to seeing you there.

Poster Presentations

John E. Dorband, UMBC

River Sense: Real-Time Sensor Monitoring of Stream Dynamic

Gemma Feild, University of Maryland, Baltimore County. Coauthors: Dr. Christopher Swan, UMBC

Assessing the impacts of urbanization on snakes in Central Maryland

Laundette Jones, University of Maryland, Baltimore. Coauthors: Eberechi Mbadugha¹, Imani Ward², Habeebat Adekoya³, Mounika Atmakuri^{4,5}, Sridhar Reddy Maram^{4,5}, Yorell Tuck⁵, Attia Robinson⁵, Michael Martin⁵, Charles Brooks⁵, Dante' Upshaw⁵, Brian Jones⁶, Erin Walton⁷, James Wright⁷, Diane Marie St. George⁷, and Laund
From Forest to Future: Stillmeadow PeacePark as a Classroom for Health Equity

Cameron Lockett, University of Maryland, Baltimore County Coauthors: Christopher Swan, University of Maryland, Baltimore County
The Urban Effect: Urbanization and its Impacts on Ecological Interactions

Mary McWilliams, UMBC/CUERE. Coauthors: Eveyln Sangree, Cornell University; Claire Welty, UMBC; Andy Miller, UMBC; Jon Duncan, Penn State; Peter Groffman, CUNY and Cary Institute.
Estimation of suspended sediment loads using high-frequency turbidity data at BES stream chemistry stations

Mahjabin Afroj Mila, UMBC, Department of Chemical, Biochemical and Environmental Engineering. Coauthors: Claire Welty, UMBC; Maryam Risher, UMBC.
Coupled Groundwater–Surface Water Modeling of Maiden's Choice Run Using ParFlow.CLM

Gemma Watson, Johns Hopkins University. Coauthors: Beatriz Shobe.
*Urbanization does not affect the genetic diversity of the self-incompatible perennial plant red clover (*Trifolium pratense*).*

Darryn Waugh, Johns Hopkins University. Coauthors: Baltimore Community Weather Network.
The Baltimore Community Weather Network

Claire Welty, UMBC/CBEE & CUERE. Coauthors: Mary McWilliams, UMBC; Andy Miller, UMBC; Bob Bathurst, SmartSWM; PJ Terhune, UMBC.
Evaluation of pollutant removal effectiveness of stormwater facilities using high-frequency water quality sensors

Ruoyu (Roy) Zhang, University of Virginia. Coauthors: Dan Pelletier, University of Virginia; Larry Band, University of Virginia
Estimating and understanding I&I and its interactions with ecohydrology in Baltimore using empirical and modeling approaches