

# Oral Presentations



Abstracts for oral presentations are provided on pages 17 - 36.

\* denotes presenting author.

## Session 1

### Status, Trends and Monitoring I

The Forum (Room 272), Saturday, October 27, 2018, 1:30 - 2:30 p.m.

---

- 1:30 p.m.      *"Determining the scope of impact: Evaluating the indirect effects of American eel stocking on eastern elliptio populations throughout the Susquehanna River Basin."*  
Carrie J. Blakeslee,\* Heather S. Galbraith, Julie L. Devers, Jeffrey C. Cole, Steve Minkinen.
- 1:50 p.m.      *"Science-based protection of source water quality and ecosystem integrity in the Delaware River Basin."*  
Marie J. Kurz,\* Scott Haag, Stefanie A. Kroll, Carol Collier, Roland Wall
- 2:10 p.m.      *"Spatial and temporal thermal patterns in the Spring Creek watershed."*  
Alexandra S. Orr,\* Elizabeth Boyer, Dave Yoxtheimer

## Session 2

### Aquatic Ecosystems

Rooms 241, A and B, Saturday, October 27, 2018, 1:30 - 2:30 p.m.

---

- 1:30 p.m.      *"The re-introduction of the American Eel to the Upper Susquehanna Watershed"*  
Sarah E. Coney\* and Paul H. Lord
- 1:50 p.m.      *"Assessing macroinvertebrate community response to restoration of Big Spring Run: Expanded analysis of BACI sampling designs"*  
Robert F. Smith,\* Emily Neidiegh, Alexis Rittle, John R. Wallace
- 2:10 p.m.      *"Fish enzyme activity in the Susquehanna River Basin: linkages to ecology, evolution and watershed stressors."*  
Kristin L. Boggs,\* Daniel E. Spooner, Dale C. Honeyfield, and Dustin Shull

Session 3

## Watershed Hydrology

Rooms 241, C and D, Saturday, October 27, 2018, 1:30 - 2:30 p.m.

---

- 1:30 p.m.      *"Overview of summer 2018 flooding in the Susquehanna Valley."*  
Robert Shedd\*
- 1:50 p.m.      *"Comparison of regression relations of bankfull discharge and channel geometry for the  
glaciated and nonglaciated settings of Pennsylvania and Southern New York and  
StreamStats regional Curves Tool for Pennsylvania."*  
John Clune,\* Jeffrey Chaplin, and Kirk White
- 2:10 p.m.      *"Impact of hyporheic exchange on stream temperature in restored systems."*  
Ethan A. Bauer\*

Session 4

## Climate, Conservation, and Restoration

Gallery Theater (Room 301), Saturday, October 27, 2018, 1:30 - 2:30 p.m.

---

- 1:30 p.m.      *"Will the Lewisburg bubble protect us from climate change?"*  
Sandy Field,\* Susquehanna Valley PA Chapter, Climate Reality Project.
- 1:50 p.m.      *"Exploring tree plantings in Pennsylvania through Precision Conservation and the  
Keystone 10 Million Tree Initiative."*  
Adrienne R. Gemberling\* and Molly Cheatum
- 2:10 p.m.      *"Saving the anthracite industry in the 1950s - The Conowingo Tunnel and anthracite  
mine flood-control projects."*  
Michael C. Korb\*

Session 5

## Aquatic Ecosystems - Stress and Response

The Forum (Room 272), Saturday, October 27, 2018, 3:30 - 4:30 p.m.

---

- 3:30 p.m.      *"An eDNA-based assessment of the impact of 55,000-gallon gas spill on the local hellbender populations."*  
Mizuki Takahashi\*
- 3:50 p.m.      *"Happy as a clam...or not? Challenges of quantifying stress response in freshwater mussels."*  
Heather S. Galbraith,\* Carrie J. Blakeslee, Kathy A. Patnode, Lora Latanzi, and Robert A. Anderson
- 4:10 p.m.      *"Nature-like Fishway Modeling and Design."*  
Xiaofeng Liu,\* Yi-xuan Zeng, Hassan Ismail, Michael Hross, Chris Goodell, Jose Zaya, and Neal Simmons.

Session 6

## Status, Trends and Monitoring II

Rooms 241A and B, Saturday, October 27, 2018, 3:30 - 4:30 p.m.

---

- 3:30 p.m.      *"Understanding the implication of changes in climate and river flow conditions on freshwater mussels."*  
Jeffrey C. Cole,\* Heather S. Galbraith, and Barry J. Wicklow
- 3:50 p.m.      *"Snapshot Volunteer Monitoring: A Community Science Success Story."*  
Helen C. Schlimm\*
- 4:10 p.m.      *"Development of an Instream Tag Monitoring System for the Eastern Hellbender Salamander."*  
Peter J. Petokas\* and Michelle R. Herman

Session 7

## Watershed Mapping and Assessment

Rooms 241C and D, Saturday, October 27, 2018, 3:30 - 4:30 p.m.

---

- 3:30 p.m.      *"High-Resolution Data Supports Precision Conservation in the Susquehanna."*  
Emily Mills\*
- 3:50 p.m.      *"PA Lidar Working Group - Status and Plans."*  
Eric Jespersen\*
- 4:10 p.m.      *"The Bogs of Loyalsock Forest."*  
Harvey Katz\*

Session 8

## Status, Trends and Monitoring III

Gallery Theater (Room 301), Saturday, October 27, 2018, 3:30 - 4:30 p.m.

---

- 3:30 p.m.      *"A survey of algal productivity and nutrient concentrations across a land-use gradient using pulse-amplitude modulated (PAM) fluorometry as a rapid assessment and measure of ecosystem function on a spatial and temporal scale."*  
Jennifer A. Soohy,\* Aaron M. Gordon-Weaver, Emily L. Ashberry, Corey, J. Conville, Steven, T. Rier,
- 3:50- p.m.      *"Use of Integrated Water Resources Management to Address Our Susquehanna River Basin - New Realities"*  
Jerry S. Walls,\* James Weaver, and Shannon Rossman
- 4:10 p.m.      *"Spatial and temporal variations in temperature of the West Branch Susquehanna River."*  
Benjamin R. Hayes\*