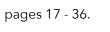
# **Oral Presentations**

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

\* denotes presenting author.





## 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 Minkkinen.

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\*

### **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\*