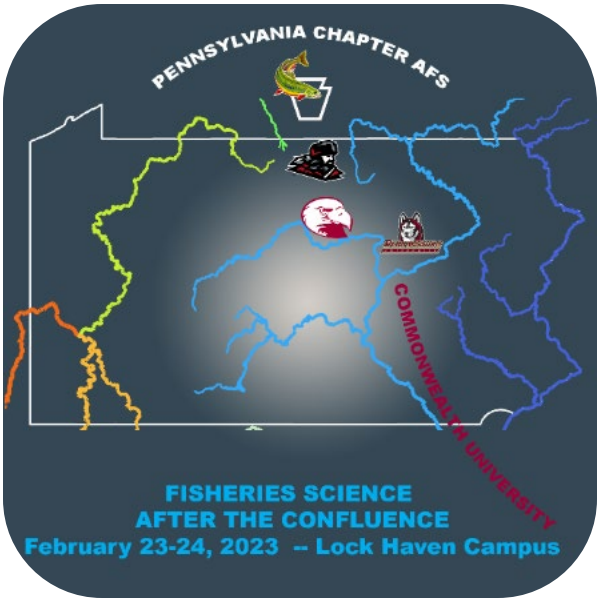

PA AFS 2023 Meeting Schedule

February 23-24, 2023

Lock Haven, PA

Time	Thursday February 23rd, 2023 Durrwachter Conference Center - 10 Susquehanna Ave, Lock Haven, PA 17745
7:00 – 8:30	**Technical set up: Check-in and registration**
8:30	Welcome and introductions: President Matt Shank
8:40	Opening remarks: Commonwealth University
9:00	**PLENARY: Dr. Casey Bradshaw Wilson,** Allegheny College - Collaborations and Conservation: What we know about Invasive Round Gobies in the Upper Allegheny Watershed
	MORNING TECHNICAL SESSION (*STUDENT PRESENTER)
	Fisheries science and education
9:30	**Stark et al.** – Diet Analysis of Invasive Flathead Catfish in the Susquehanna River Basin
9:50	**Snyder et al.** – Population Assessment of a Threatened Sculpin Species Using Remotely Operated Vehicle Technology
10:10	**Henning** – Eels in the Classroom: Developing an Environmental Education Outreach Program to Promote Migratory Fish Awareness
10:30	*Break*
	Impacts to watersheds
11:00	**Shank** – Using water chemistry and biological data to identify atmospheric deposition impairments in PA headwater streams
11:20	**Steffy** – A Case Study on Impacts of Unconventional Natural Gas Development in Two Small Watersheds in Northcentral Pennsylvania
11:40	**Clark et al.** – Freshwater Unionid Mussels Threatened by Predation of Round Goby (Neogobius melanostomus)

12:00	*Lunch*
	AFTERNOON TECHNICAL SESSION
	Watershed ecology and restoration
1:00	***Nauman et al.** – Linking in-stream and landscape-level conditions to macroinvertebrate assemblages in the Little Juniata River watershed
1:20	**Rummel et al.** – Scaling Up Restoration: Recovery of Native and Wild Trout Populations and Other Downstream Responses Due to Abandoned Mine Drainage Remediation in a Large River System
1:40	**Sebastian et al.** – Instream habitat improvement, monitoring, and future plans in the French Creek watershed
2:00	Break
2:20	**Kirk et al.** – Evaluating the thermal integrity of streams in Northwest Pennsylvania based on water temperature and fish community data
2:40	**Mueller** – Color and pattern variation of brook trout
3:00	**Wilson** - Buffalo Creek Watershed (Tributary to Allegheny River) Fish Monitoring and Water Quality Analysis
3:20	**Cooper Award Presentation**
3:30	**PA AFS CHAPTER BUSINESS MEETING**
4:30	Dinner on your own
6:30 – 9:00	**EVENING POSTER SESSION and SOCIAL (*STUDENT PRESENTER)**
	Spitz*, Argent, and Kimmel – Aquatic macroinvertebrate colonization and decomposition rates of the invasive Japanese knotweed (*Fallopia japonica*) and a native control, American sycamore (*Patanus occidentalis*)
	Nauman* and Merovich– Linking in-stream and landscape-level conditions to macroinvertebrate assemblages in the Little Juniata River watershed
	Holdsworth*, Garman*, Nauman*, and Merovich – Evaluating walleye (Sander vitreus) spawning effort on constructed rock rubble reefs in Raystown Lake
	Stum*, Marshall, Tzilkowski, Buderman, and Wagner – Documenting Spatiotemporal Trends in Fish Communities of the National Park Service Eastern Rivers and Mountains Network
	Kozlowski*, Marchakitus*, Bechtold, and Seiler . – Restoration measures on stream biofilm and fish abundance in the Little Arnot watershed, PA
	Rummel, Tomlinson, Lutz, Lavelle, and Wolfe – Evaluation of Aquatic Organism Passage at Road-Stream Crossing Improvement Projects in Pennsylvania
	Thomas*, Schall, Smith, Stark, and Wagner – Piloting the use of stable isotope analysis to understand trophic dynamics of invasive Flathead Catfish *Pylodictis olivaris*

	Reheard* and Ferreri – Exploring relationships between periphyton biomass, substrate disturbance, and benthic macroinvertebrate diversity related to the McCoy Dam removal in Spring Creek of Centre County, Pennsylvania
	Frantz* and Moyer – Significant differences in average pH and alkalinity found among streams with differing bedrock geologies
	Rider*, McTammany, and Seiler – Evaluation of the reach and catchment level effects of riparian buffers on fish communities
	Raab, Lech, Allison, Clark, Sallack, and Welte – PFBC Freshwater Mussel Surveys in 2022
	Foster, Lutz, and Rummel – Trout response to multiple habitat restoration techniques in the Kettle Creek watershed
	Sherry* and Merovich – The effect of active water treatment on macroinvertebrate diversity and water quality in a Pennsylvania acid mine drainage stream
	Friday February 24th, 2023 - Lock Haven East Campus Science Center – 301 W Church St, Lock Haven, PA 17745
7:00 – 8:00	**Technical set up: Check-in and registration**
	CONCURRENT WORKSHOPS
8:00 – 12:00	R for fisheries professionals: Facilitator Jason Doll (Francis Marion University). *** 2 PDPQs for CFP (4 hours)
8:00 – 12:00	Freshwater mussels of Pennsylvania's Susquehanna River basin. Facilitators: Rick Spear (PADEP), Nevin Welte (WPC, PFBC), Dakota Raab (PFBC). *** 2 PDPQs for CFP
8:00 – 12:00	An Introduction to the Mayfly larvae of Pennsylvania. Facilitators: Dave Rebuck (PADEP – retired) and Mike Bilger. *** 2 PDPQs for CFP
12:00	**Adjourn**

WORKSHOP DESCRIPTIONS

R for fisheries professionals. Facilitator: Jason Doll (Francis Marion University). Topics covered include FSA and simple fisheries stock assessment, R basics, condition and weight-length relationships, catch curve and mortality, LVB models, and stock-recruitment. *Workshop length 4 hours.* *** 2 PDPQs for CFP

Freshwater mussels of Pennsylvania's Susquehanna River basin. Facilitators: Rick Spear (PADEP), Nevin Welte (WPC, PFBC), Dakota Raab (PFBC). Topics covered include the ecology and identification of mussels of the Susquehanna drainage. The first portion of the workshop will include a presentation and the second will include hands-on identification. *Workshop length 4 hours.* *** 2 PDPQs for CFP

An Introduction to the Mayfly larvae of Pennsylvania. Facilitators: Dave Rebuck (PADEP – retired) and Mike Bilger. Topics covered include morphology, life history, pollution tolerance, habitat preference, and taxonomy of Ephemeroptera. The first portion of the workshop will include a presentation and the second will include hands-on identification. Microscopes will be provided for workshop participants. *Workshop length 4 hours.* *** 2 PDPQs for CFP

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American Brook Lamprey
Lethenteron appendix

Lampreys begin life as ammocoetes, but undergo metamorphosis (with the help of PA AFS) and develop into adults, becoming an integral part of the ecosystem.

Benefits:

- Sponsor student to present research