

Watershed 101 Workshop

May 18, 19, and 31 at Stroud Water Research Center, 970 Spencer Rd, Avondale, PA 19311

Agenda

Day 1 – Workshop overview and background; physical and chemical characteristics of streams and rivers

- 8:00-8:30 – Informal discussions, light breakfast and refreshments
- 8:30-8:50 – Introduction – David Bressler (Stroud Center)
- 8:50-9:15 – Scope and scale – Dr. David Arscott (Stroud Center)
- 9:15-12:00 – Unit 1 – Physical characteristics and processes in the monitoring context – Dr. Melinda Daniels (Stroud Center)
 - 9:15-10:15 – Introduction, hydrology, geomorphology
 - 10:15-10:30 – Break
 - 10:30-11:30 – Geomorphology, temperature and solar
 - 11:30-12:00 – Discussion
- 12:00-1:00 – Lunch
- 1:00-4:00 – Unit 2 – Chemical characteristics and processes in the monitoring context – Dr. David Arscott (Stroud Center)
 - 1:00-2:15 – Geochemistry, basic chemistry parameters
 - 2:15-2:30 – Break
 - 2:30-3:30 – Nitrogen, Phosphorus, Carbon
 - 3:30-4:00 – Discussion
- 4:00-5:00 – Discussion, flexible time

Day 2 – Biological characteristics of streams and rivers

- 8:00-8:30 – Informal discussions, refreshments
- 8:30-8:45 – Intro, open discussion, questions from day 1
- 8:45-3:30 – Unit 3 – Biological characteristics and processes in the monitoring context
 - 8:45-9:35 – Microbiology – Dr. Jinjun Kan (Stroud Center)
 - 9:35-10:15 – Algae/primary productivity – Greg Barren (Academy of Natural Sciences of Drexel University)
 - 10:15-10:30 – Break
 - 10:30-12:00 – Macroinvertebrates – Dr. John Jackson
- 12:00-1:00 – Lunch
 - 1:00-1:45 – Macroinvertebrates (cont'd)
 - 1:45-2:00 – Break
 - 2:00-3:00 – Fish – Allison Stoklosa (Academy of Natural Sciences of Drexel University)
 - 3:00-3:30 – Discussion
- 3:30-5:00 – Discussion, flexible time, lead-in to day 3

Day 3 – Project/study design and monitoring

- 8:00-8:30 – Informal discussions, refreshments
- 8:30-9:00 – Project/study design – John
- 9:00-9:25 – Scope and scale – Matt Ehrhart (Stroud Center)
- 9:25-10:00 – Discussion
- 10:00-10:15 – Break
- 10:15-11:15 – Physical – Melinda
- 11:15-12:00 – Chemical – Dave A
- 12:00-1:00 – Lunch
- 1:00-1:30 – Microbiology – Jinjun
- 1:30-2:00 – Algae – Kathryn Christopher (Academy of Natural Sciences of Drexel University)
- 2:00-2:15 – Break
- 2:15-2:45 – Fish – David Keller (Academy of Natural Sciences of Drexel University)
- 2:45-3:30 – Macroinvertebrates and Final Thoughts – John
- 3:30-5:00 – Discussion and wrap-up