Association of Clean Water Administrators

2024 Modeling Workshop

September 16 – 20, 2024

This Water Quality Modeling Workshop is a national meeting organized by ACWA, in partnership with USEPA for state program managers and staff involved in water quality modeling, as well as for both Regional and Headquarters-based U.S. Environmental Protection Agency managers and staff.

MONDAY, SEPTEMBER 16

12:00 – 1:00 PM ET	**Welcome and Registration**
1:00 – 5:00 PM ET	**Full Group Plenary**
3:30– 3:45 PM ET	**Break**

TUESDAY, SEPTEMBER 17

8:00 – 8:30 AM ET	**Welcome, Introductions, Why Model**
8:30 – 9:00 AM ET	**Introduction to WASP**
9:00 – 9:30 AM ET	**Model Network/Segmentation**
9:30 – 10:30 AM ET	**Computer Example Segmentation examples (CSTR, 1-D River, 2D-Lateral River, Hydrodynamic Linkage)**
10:30—10:45 AM ET	**Break**
10:45—12:00 PM ET	**WASP Transport Schemes (Flow Routing, Kinematic Wave, Dynamic Flow, Lake Module, Hydrodynamic Linkage)**
12:00 – 1:15 PM ET	**Lunch (on your own)**
1:15 – 2:00 PM ET	**Computer Examples Transport Schemes**
2:00—2:15 PM ET	**Break**
2:15 – 3:45 PM ET	**Computer Example: Modeling Temperature, Introduction of Boundaries and Kinetic Constants**
4:00 – 5:00 PM ET	**Full Group Plenary**
	Utilizing SWAT+ for TMDL Characterization: A Wisconsin Case Study Eric Hettler, Wisconsin DNR
6:00 – 8:00 PM ET	**Informal Networking Event**
	Victory Brewing Company - 1776 Benjamin Franklin Pkwy, Philadelphia, PA 19103

WEDNESDAY, SEPTEMBER 18

8:00 – 8:30 AM ET	**Introduction to Eutrophication Module**
8:30 – 9:00 AM ET	**Environmental Conditions**

9:00 – 9:30 AM ET	**Applying Varying Model Complexity**
9:30 – 10:30 AM ET	**Setting Up WASP Input. Data requirement, how to organize, and enter into model**
10:30—10:45 AM ET	**Break**
10:45—12:00 PM ET	**Computer Examples: 1) Dissolved Oxygen 2) Nutrient Cycling 3) Algae Growth 4) Periphyton/Macro Algae**
12:00 – 1:15 PM ET	**Lunch (on your own)**
1:15 – 2:00 PM ET	**Computer Examples (Continued)**
2:00—2:15 PM ET	**Break**
2:15 – 3:45 PM ET	**Computer Example: Real World Model Example**
4:00 – 5:00 PM ET	**Full Group Plenary**
	Chesapeake Climate Change Assessment Using A Suite of Atmospheric, Land Use, Watershed, and Estuarine Models Lewis Linker, U.S. EPA Chesapeake Bay Program Office
6:00 – 8:00 PM ET	**Informal Networking Event**
	City Tap House - 100 N 18th St, Philadelphia, PA 19103

THURSDAY, SEPTEMBER 19

8:00 – 8:30 AM ET	**Model Calibration Process, Visualization Tools**
8:30 – 9:00 AM ET	**How to do a TMDL and/or Waste Load Allocation**
9:00 – 9:30 AM ET	**Computer Example: Model Calibration**
9:30 – 10:30 AM ET	**Computer Example: Nutrient Reduction to meet Water Quality Standard/Endpoint**
10:30—10:45 AM ET	**Break**
10:45—12:00 PM ET	**Introduction to Toxicant Model**
12:00 – 1:15 PM ET	**Lunch (on your own)**
1:15 – 2:00 PM ET	**Computer Examples**
2:00—2:15 PM ET	**Break**
2:15 – 3:45 PM ET	**Computer Examples (Continued)**
4:00 – 5:00 PM ET	**Full Group Plenary**
	Leveraging Nutrient Inventories to Inform Water Quality Modeling and Restoration Effort Robert Sabo, U.S. EPA

FRIDAY, SEPTEMBER 20

8:00 – 10:30 AM ET	**Scenarios and Q&A**
10:30—11:00 AM ET	**Break**
11:00 – 12:00 PM ET	**Workshop Wrap-Up**

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