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

1:00 – 5:00 PM ET	Full Group Plenary
3:00– 3:30 PM ET	Break

TUESDAY, SEPTEMBER 17

9:00 – 10:30 AM ET	Welcome and Introduction, Theory and Conceptual SWAT+ model
10:30 – 10:45 AM ET	Break
10:45 – 12:00 PM ET	Hands-on QSWAT+ watershed delineation
12:00 – 1:00 PM ET	Lunch (on your own)
1:00 – 3:30 PM ET	Hands-on QSWAT+ watershed delineation
3:30—4:00 PM ET	Break
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
	Reading Terminal Market - 1136 Arch St, Philadelphia, PA 19107

WEDNESDAY, SEPTEMBER 18

9:00 – 10:30 AM ET	SWAT+ Editor session using the QSWAT+ project developed and model execution, reading the results, saving projects
10:30 – 10:45 AM ET	Break
10:45 – 12:00 PM ET	SWAT+ Editor session, visualization, running scenarios, and Q&A session
12:00 – 1:00 PM ET	Lunch (on your own)
1:00 – 3:00 PM ET	SWAT+ soft calibration
3:10—3:30 PM ET	Presentation on Model Calibration and Evaluation
	Introduction to the case study dataset
3:30—4:00 PM ET	Break
4:00 – 5:00 PM ET	Full Group Plenary

6:00 – 8:00 PM ET	Informal Networking Event Harp & Crown - 1525 Sansom St, Philadelphia, PA 19102

THURSDAY, SEPTEMBER 19

9:00 – 10:30 AM ET	1. SWAT+ Toolbox Overview 2. Setting up projects - Creating new projects - Opening existing projects 3. Running SWAT+ - Model run setting - Model run scenarios 4. Parameters - Adding parameters (Individual vs Sets) - Parameter change types - Attaching objects to parameters
10:30 – 10:40 AM ET	Break
10:40 – 12:00 PM ET	5. Observations - Preparing observations - Adding observations 6. Running Sensitivity Analysis - Understanding sensitivity analysis - Setting up sensitivity analysis run - Interpreting results
12:00 – 1:00 PM ET	Lunch (on your own)
1:00 – 2:50 PM ET	7. Model Calibrations - Manual calibrations - Automatic calibrations 8. Model Checks - Water balance - Nutrient balance - Sediments 9. Management Operations - Management schedules - Dealing with decision tables
2:50—3:00 PM ET	Break
3:00—3:30 PM ET	10. Running Scenarios - Climate change - Land Management 'Scenarios'

	11. Q&A
3:30—4:00 PM ET	Break
4:00 – 5:00 PM ET	Full Group Plenary

FRIDAY, SEPTEMBER 20

9:00 – 11:00 AM ET	Scenarios and Q&A
11:00 – 12:00 PM ET	Workshop Wrap-Up

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