

Modeling 201: Demystifying your Modeling Project

Topic	Presentation	Interactive
Tuesday, September 16		
Welcome <ul style="list-style-type: none">• Introductions/attendee interests• Session overview and agenda	9:00-9:45am	
Lightning Modeling 101	9:45-10:15am	
15-min Break (10:15-10:30am)		
Model planning <ul style="list-style-type: none">• Project planning overview• Problem formulation• Model selection• Contracting SOW, deliverables	10:30-11:15am	Model Planning exercise 11:15-11:30am
75-min Lunch Break (11:30am-1:00pm)		
		<i>continued</i> Model Planning exercise 1:00-1:30pm
QAPPs <ul style="list-style-type: none">• QAPP development and process	1:30-2:00pm	QAPP examples and Scavenger Hunt exercise 2:00-2:30pm
15-min Break (2:30-2:45pm)		
Case Study Introduction	2:45-3:00pm	
Introduction to QUAL2K/QUAL2Kw	3:00-3:15pm	Guided walk through QUAL2K/Kw 3:15-3:45pm
15-min Break (3:45-4:00pm)		
Whole group plenary (4:00-5:00pm)		
Wednesday, September 17		
Recap and questions from Tuesday (Parking lot)	9:00-9:15am	
Model Setup (Configuration and Data Compilation) <ul style="list-style-type: none">• Data Gathering• Model types	9:15-9:45am	
Model Setup (Configuration and Data Compilation) (continued) <ul style="list-style-type: none">• Inputs and configuration for <u>watershed models</u>	9:45-10:15am	
15-min Break (10:15-10:30am)		
Model Setup (Configuration and Data Compilation) (continued) <ul style="list-style-type: none">• Inputs and configuration for <u>receiving waterbody models</u>• Addressing data gaps• Overview of workhorse models	10:30-11:15am	QUAL2Kw setup and data 11:15-11:30am
75-min Lunch Break (11:30am-1:00pm)		
		<i>continued</i> QUAL2Kw setup 1:00-1:30pm

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Model Calibration and Evaluation (part 1) <ul style="list-style-type: none"> Selecting parameters to calibrate Process and evaluation Sensitivity testing 	1:30-2:15pm	
15-min Break (2:15-2:30pm)		
		Model Calibration and Sensitivity exercise 2:30-3:45pm
15-min Break (3:45-4:00pm)		
Whole group plenary (4:00-5:00pm)		
Thursday, September 18		
Recap and questions from Tuesday/Wednesday	9:00-9:15am	
Model Calibration and Evaluation (part 2) <ul style="list-style-type: none"> Post-processing and visualization Quantitative vs. qualitative examples Error statistics 	9:15-10:00am	
15-min Break (10:00-10:15am)		
		Model Evaluation exercise 10:15-11:00am
Model Acceptance <ul style="list-style-type: none"> Acceptance process, peer review Determination of suitability 	11:00-11:30am	
75-min Lunch Break (11:30am-1:00pm)		
Scenarios and decision making	1:00-1:30pm	Modeling Scenarios exercise 1:30-3:00pm (<i>with break</i>)
15-min Break (during hands-on exercise)		
Public Process <ul style="list-style-type: none"> Communication Model defensibility 	3:00-3:45pm	
15-min Break (3:45-4pm)		
Whole group plenary (4-5:00pm)		
Friday, September 19		
Modeling Report <ul style="list-style-type: none"> Contents Review components 	9:00-9:25am	Model Report Review 9:25-9:45am
Recap and Wrapping Up <ul style="list-style-type: none"> Final Parking Lot issues Resources Feedback – Measures of Success 	10:00-10:45am	
15-min Break (10:45-11am)		
Whole group plenary (11:00am – noon)		