

LSPA Environmental Symposium
April 4, 2023, Track 1, 1:00 PM – 3:00 PM
Solute Transport Modeling for the Environmental Professional

Course Outline

No.	Section	Duration (min)	Summary <i>Time for Q & A is built into each section</i>
1	Introduction	15	Introduction to course topics, and overview of how solute transport modeling can be a valuable tool for LSPs
2	Fate and Transport Concepts	20	A basic overview of key contaminant fate and transport processes that control plume movement
3	Solute Transport Modeling Concepts	10	A discussion of key solute transport modeling concepts and considerations
4	Solute Transport Modeling Approaches	25	An overview of how solute transport modeling has evolved over time from simple 1D to more complex 3D methods, and the pros and cons of each
5	Data Requirements and Resources	15	Discussion of data requirements, methods and resources for obtaining the required data, state and federal guidance for plume transport analyses
6	Overview of Modeling Software	10	Overview of solute transport modeling software and related tools
7	Example Applications	20	Selected solute transport modeling examples/case studies
8	Wrap-Up	5	Recap, summary of key points/modeling considerations