



## SCALE KENO-VI/MAVRIC Training Course Oak Ridge National Laboratory

### Monday

8:00 a.m.	Overview of SCALE System
8:45 a.m.	Introduction to CSAS6
9:00 a.m.	Standard Composition Library
9:15 a.m.	Break
9:30 a.m.	Material Information Processor
10:00 a.m.	Resonance Self-Shielding
10:30 a.m.	Break
10:45 a.m.	Unit Cell Data / MORE Data
12:00 p.m.	Lunch
12:45 p.m.	Introduction to Monte Carlo and uncertainties
1:30 p.m.	GeeWiz Tutorial for 1-D Problems
2:00 p.m.	Problem Session 1
5:00 p.m.	Conclusion

### Tuesday

8:00 a.m.	Review of Problem Session 1
8:30 a.m.	KENO-VI Input / Parameter Data
8:45 a.m.	KENO-VI Geometry Data
9:30 a.m.	Break
9:45 a.m.	KENO-VI Geometry Modification Data
10:45 a.m.	Break
11:00 a.m.	KENO3D Tutorial
12:00 p.m.	Lunch
12:45 p.m.	Problem Session 2 (GeeWiz tutorial for KENO-VI)
5:00 p.m.	Conclusion



## SCALE KENO-VI/MAVRIC Training Course Oak Ridge National Laboratory

<b>Wednesday</b>
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8:00 a.m.	Review of Problem Session 2
8:30 a.m.	KENO-VI Contents Data / Holes
9:15 a.m.	Break
9:30 a.m.	KENO-VI Contents Data / Arrays
10:45 a.m.	Break
11:00 a.m.	Key parameters for advanced problem analysis
12:00 p.m.	Lunch
12:45 p.m.	Problem Session 3
5:00 p.m.	Conclusion

<b>Thursday</b>
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8:00 a.m.	Shielding Calculations: Monte Carlo Basics
8:30 a.m.	Elements of a Shielding Calculation/MAVRIC Input
9:00 a.m.	GeeWiz interface for MAVRIC using Example Iron Sphere Problem
9:45 a.m.	Break
10:00 a.m.	Exercise 1: Neutron Howitzer
10:05 a.m.	Students use GeeWiz, working independently
11:15 a.m.	Review answers for Exercise 1
11:30 a.m.	Exercise 2: Graphite Shielding Measurements
11:35 a.m.	Students use GeeWiz, working independently
12:00 p.m.	Lunch
1:00 p.m.	Students use GeeWiz, working independently
1:45 p.m.	Review answers for Exercise 2
2:00 p.m.	Advanced Variance Reduction Methods: CADIS
2:30 p.m.	MAVRIC input for using TORT importances
2:45 p.m.	GeeWiz interface for MAVRIC using Example Cask Problem
3:45 p.m.	Break



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4:00 p.m.	Exercise 3: Graphite Shielding Measurements Revisited
4:05 p.m.	Students use GeeWiz, working independently
5:00 p.m.	Conclusion

### Friday

8:00 a.m.	Review answers for Exercise 3
8:15 a.m.	Simultaneous Optimization of Several Tallies: FW-CADIS
8:45 a.m.	Exercise 4: Storage Cask Farm
8:50 a.m.	Students use GeeWiz, working independently
10:15 a.m.	Break
10:30 a.m.	Review answers for Exercise 4
10:45 a.m.	Future of Monaco/MAVRIC
11:00 a.m.	Open Discussion/Finish Exercises
12:00 p.m.	Conclusion