

Advanced RESRAD-ONSITE & RESRAD-OFFSITE, RESRAD-BIOTA, and RESRAD-RDD Training Workshop

Conducted at
Argonne National Laboratory
Argonne, IL
September 24-28, 2018

Day 1	
8:45-9:00	Registration
9:00-9:30	Kd Estimate Options in RESRAD-ONSITE (Water concentrations, Solubility Limit, Root uptake)
9:30-10:00	Hands-on
10:00-10:15	Break
10:15-10:45	Mass Balance Model in RESRAD-ONSITE
10:45-11:15	Hands-on
11:15-11:45	Document Overview
11:45-1:00	Lunch
1:00-2:00	Inhomogeneous Contamination in RESRAD-ONSITE (Layered, hotspots, shape factor and area factors)
2:00 – 3:00	Hands-on
3:00 – 3:15	Break
3:15 – 4:45	Hands-on RESRAD-OFFSITE (Deterministic and Sensitivity)

Day 2	
8:30-9:00	Source Term Model
9:00-9:45	Hands-on Source Release Exercises
9:45-10:00	Break
10:00-10:45	Hands-on Submerged Source
10:45-11:00	Break
11:00-11:45	Hands-on Flux input/output
11:45-1:00	Lunch
1:00-2:00	Hands on Probabilistic/Sensitivity Analysis
2:00-2:15	Break
2:15-3:15	Hands on Probabilistic/Sensitivity Analysis continued
3:15-3:30	Break
3:30-4:45	Application of Probabilistic Analysis (Area Factors, Fence-line Analysis)

Day 3	RESRAD-BIOTA
8:30 – 8:45	Introduction
8:45 – 9:15	Regulatory and Evaluation Framework for Radiation Protection of the Environment
9:15 – 9:30	RESRAD-BIOTA Overview
9:30 – 10:10	RESRAD-BIOTA Input Demo
10:10 – 10:20	Break
10:20 – 10:45	RESRAD-BIOTA Output Demo
10:45 – 11:15	Hands-on and review
11:15 – 11:45	RESRAD-BIOTA Methodology
11:45 – 1:15	Lunch
1:15 – 2:00	Demonstration of General Screening and Site-Specific Screening Phases and Hands-on Problem 1
2:00 – 2:20	Hands-on & Review
2:20 – 3:20	Principles of Ecological Risk Assessment
3:20 – 3:30	Break
3:30 – 3:45	Organism Wizard Feature
3:45 – 4:15	Site-Specific Analysis Phase and Hands-on Problem 3
4:15 – 4:45	Hands-on & Discussion
4:45	Adjourn for Day 1
Day 4	
8:30 – 9:00	The Technical Basis Behind the RESRAD-BIOTA Code
9:00 – 9:30	Hands-on Problem 5
9:30 – 10:00	Bring It All Together: Two Case Studies
10:00 – 10:15	Break
10:15 – 10:45	Hands-on and Review

10:45 – 11:00	Wildlife Transfer Factors Database
11:00 – 11:45	International Model Comparison Studies on Biota Dose Assessment
11:45 – 1:00	Lunch

<i>RESRAD–RDD</i>	
Day 4	
1:00 – 1:15	Introduction
1:15 – 2:00	Protective Action Decisions
2:00 – 2:30	Methodology
2:30 – 2:45	Break
2:45 – 3:15	RESRAD–RDD Demo
3:15 – 4:00	Hands–on
4:00 – 4:45	Group A, Access During Emergency Response
Day 5	
8:30 – 9:30	Group B, Early-Phase Protective Actions
9:30 – 10:30	Group C, Relocation
10:30 – 10:45	Break
10:45 – 11:45	Group D, Temporary Access
11:45 – 1:00	Lunch
1:00 – 2:00	Group E, Transportation
2:00 – 3:00	Group F, Release of Property
3:00 – 3:15	Break
3:15 – 4:15	Group G, Food Consumption
4:15 – 4:45	Review and Discussion