Invited Expert Meeting on Revising U.S. EPA's Guidelines for Deriving Aquatic Life Criteria
14-16 September 2015, Arlington, Virginia

AGENDA

Monday, September 14

1:00-2:00	Welcome Background/Introductory Presentations	U.S. EPA
2:00-2:35	Changes to the Method for Deriving Australian and New Zealand Water Quality Guideline Values for Toxicants	Michael St. John Warne, Department of Science, Information Technology and Innovation, Queensland, Australia
2:35-3:10	An Overview of Canadian Water Quality Guidelines	Doug Spry, National Guidelines and Standards Office, Science and Technology Branch, Environment Canada
3:10-3:25	BREAK	
3:25-4:00	Water Quality Criteria/Standards: International Approaches for Derivation	William Stubblefield, Oregon State University
4:00-5:00	Public Comment Period	

Tuesday, September 15

8:00-8:10	Welcome to Day 2	
8:10-8:45	Use of Toxicity Models in Aquatic Life Criteria to Address Different Levels of Effect as a Function of Exposure Concentration and Time	Russell Erickson, U.S. EPA ORD NHEERL, Mid-continent Ecology Division
8:45-9:20	A Unified Aquatic Life Framework for Addressing the Affected Percentages of Individuals, Species, and Time, with an Example Regarding Atrazine Effects on Aquatic Plant Communities	Charles Delos, Great Lakes Environmental Center and Russell Erickson, U.S. EPA ORD NHEERL, Mid-continent Ecology Division
9:20-9:55	Statistical Tools to Evaluate Species Sensitivity Distributions and Calculate Final Acute and Chronic Values	Michael Bock, Ramboll Environ
9:55-10:15	BREAK	
10:15-10:50	Statistical and Biological Interpretation of Test Endpoints Relative to Unacceptable Risk Levels	Frank Dillon, CH2M HILL
10:50-11:25	Augmenting Species Diversity in Water Quality Criteria Derivation using Interspecies Correlation Models	Mace Barron, U.S. EPA ORD
11:25-12:00	Effective Weight-of-Evidence Approaches for Evaluating Ecotoxicity Studies	Miranda Henning, Ramboll Environ
12:00-1:30	LUNCH	
1:30-2:05	Improving Uncertainty Characterization in USEPA's Guidelines for Deriving Aquatic Life Criteria Using Decision Contexts	Douglas McLaughlin, National Council for Air and Stream Improvement, Inc.
2:05-2:40	Minimum Data Requirements for Developing Water Quality Criteria: Use of Toxicity Data from Under-Represented Organisms	Ning Wang, U.S. Geological Survey
2:40-3:15	Derivation and Application of Taxon-Specific Criteria: Additional Resolution in WQC Recommendations	Tom Augspurger, U.S. Fish and Wildlife Service
3:15-3:35	BREAK	

3:35-4:10	Cross-species Evaluation of Molecular Target Sequence and Structural Conservation as a Line of Evidence for Identification of Susceptible Taxa to Inform Toxicity Testing	Carlie LaLone, U.S. EPA ORD NHEERL, Mid-continent Ecology Division
4:10-4:45	Perspectives on the Derivation of Aquatic Life Criteria for Pesticides	Jeffrey Giddings, Compliance Services International on behalf of CropLife America
4:45-5:00	Wrap Up	

Wednesday, September 16

8:00-8:10	Welcome to Day 3	
8:10-8:45	Criteria for Determining the Value of Bringing More "Eco" into Ecotoxicological Guidance for the Development of Water Quality Guidelines	Samuel Luoma, John Muir Institute of the Environment, University of California, Davis
8:45-9:20	Field-based Methods for Developing Water Quality Benchmarks	Susan Cormier, U.S. EPA ORD NCEA
9:20-9:55	Explanations for the Disconnection Between the Laboratory and Field in Understanding the Effects of Metals on Aquatic Insects	David Buchwalter, North Carolina State University
9:55-10:15	BREAK	
10:15-10:50	Integrating Mesocosm Experiments and Field Data to Develop Water Quality Criteria for Contaminants in Aquatic Ecosystems	William Clements, Colorado State University
10:50-11:25	The Use of Multi-Linear Regression to Derive Site-Specific Water Quality Criteria for Metals: A Complementary Approach to the Biotic Ligand Model	Kevin Brix, EcoTox
11:25-12:00	Using the Biotic Ligand Model and Fixed Monitoring Benchmarks for Resolving Both Spatial and Temporal Variability in Setting Aquatic Life Criteria for Copper	Robert Gensemer, GEI Consultants
12:00-1:30	LUNCH	
1:30-2:05	Incorporation of Field or Meso/Microcosm Data to Validate Criteria in Watersheds Supporting Federally Listed Species	Kathleen Patnode, U.S. Fish and Wildlife Service
2:05-2:40	Ambient Water Quality Criteria: Protectiveness of Threatened and Endangered (T&E) Species and Aquatic-dependent Wildlife	David DeForest, Windward Environmental
2:40-3:15	Application of Weight of Evidence Methods to Water Quality Criteria	Glenn Suter, U.S. EPA ORD NCEA
3:15-3:30	Wrap Up	