Agenda - ISEF Workshop Environmental Forensics: Theory, Applications, and Case Studies November 9 – 10, Sheraton, N. Charleston, SC

Day One: November 9, 2004

7:30-8:00	Registration (coffee)
8:00-8:10	Welcome and Workshop Orientation Paul T. Kostecki, Ph.D., ISEF, Amherst, MA
8:10-8:20	History and Evolution of Environmental Forensics Paul T. Kostecki, Ph.D., ISEF, Amherst, MA
8:20-9:00	Overview of Forensics Data Analysis and Interpretation Robert I. Haddad, Ph.D., Applied Geochemical Strategies, Inc., San Luis Obispo, CA
9:00- 9:45	Overview Forensic Application of Statistical Methods in Environmental Forensic Investigations Shahrokh Rouhani, Ph.D., P.E., NewFields, Inc., Atlanta, GA
9:45–10:00	Break
10:00-10:45	Integration of a Groundwater Model, Environmental Tracer and Water-to-Vapor Diffusion Samplers in Assessment of a Hydrocarbon Contaminated Aquifer Clifton C. Casey, Naval Facilities Engineering Command, Southern Division, N. Charleston, SC
10:45-11:30	Applications of ICPMS and Laser Ablation ICPMS in Environmental Forensic Investigations Mohamad Ghazi, Ph.D., ERS Consulting, Inc., Atlanta, GA
11:30-12:00	The Use of Multiple Methods to Fingerprint and Age Date Gasoline Releases Gil Oudijk, Triassic Technologies, Hopewell, NJ
12:00-1:15	Lunch & Presentation: The Effect of Quarrying on the Delaware River: A Farmer's Legal and Technical Perspective Walter Schneiderwind, Ph.D., Schneiderwind Farms in Upper Black Eddy Pennsylvania and Gil Oudijk, Triassic Technologies, Hopewell, NJ

1:15–1:20	Introduction to Advanced Forensic Topics Robert I. Haddad, Ph.D., Applied Geochemical Strategies, Inc., San Luis Obispo, CA
1:20-2:15	Stable Isotope Analysis in Environmental Forensic Investigations of Groundwater Contamination Neil C. Sturchio, Ph.D., University of Illinois, Chicago, IL
2:15-3:15	Bacterial Community Structure as Indicator of Natural Attenuation Raul J. Cano, Ph.D., Environmental Diagnostics, Inc., San Luis Obispo, CA
3:15-3:30	Break
3:30-4:15	Identification of Light-end Petroleum Products In Environmental Samples Yakov Galperin, Ph.D., Battelle Memorial Institute, Moorpark, CA
4:15-5:00	Source Identification of Spilled Petroleum Hydrocarbons Using Isotopic Pattern Recognition Chih-Hsien Sun, Ph.D., Chinese Petroleum Corporation, Miaoli, Taiwan
5:00	Adjourn
Day Two: No	ovember 10, 2004
8:00-8:15	Review and Introduction to the Morning Session Robert D. Morrison, Ph.D., DPRA Inc., San Marcos, CA
8:15-9:00	Admissibility of Environmental Forensic Evidence in Court Mark Elliott, Esq., Pillsbury Winthrop LLP, Los Angeles, CA
9:00-10:00	Use of PAHs, Related Biomarkers, the TOC Normalizer, and a Constrained Least-Squares Algorithm to Allocate Hydrocarbon Sources in Coastal Alaskan Sediments Paul Boehm, Ph.D. Exponent, Inc., Natick, MA
10:00-10:15	Break
10:15-11:15	Use of GC×GC Techniques in Environmental Forensics: Initial Weathering of the Bouchard 120 Oil Spill Christopher M. Reddy, Ph.D., Woods Hole Oceanographic Institution, Woods Hole, MA

11:15-12:00	PCB, Dioxin, and Furan Fingerprinting: Forensic Applications and Case Studies Glenn Johnson, Ph.D., University of Utah, Salt Lake City, Utah
12:00-1:00	Lunch
1:00-1:10	Review and Introduction to the Afternoon Session Paul Boehm, Ph.D., Exponent, Maynard, MA
1:10-2:10	Reverse Modeling For Identifying Contaminant Sources: Overview Of Methods That Work Amvrossios C. Bagtzoglou, Ph.D., University of Connecticut, Storrs, CT
2:10-3:15	Mechanistically Based Bioassays for Risk Assessment of Environmental Contaminants John Gordon, Ph.D., Xenobiotic Detection Systems, Inc., Durham, NC
3:15-3:30	Break
3:30-4:15	A Novel Environmental Forensics Tool to Relate NAPL, Soil, and Ground-Water Data by Conversion to a Common Frame of Reference James Reisinger, Ph.D., Integrated Science & Technology, Inc. Marietta, Georgia
4:15-5:00	The Use of Fate and Transport Models to Estimate Timing of Solvent Releases "Who Started It????" Harry D. O'Brien, P.G., ENSR International, Columbia, SC
5:00	Adjourn