



International Society of Environmental Forensics

*is Pleased to Announce the Following Workshop*

**April 20-21, 2006**

**Honolulu, Hawaii**

## **Harbors and Sediment Assessments**

**T**his workshop brings together leaders in the field, and focuses on investigative tools to meet challenges facing sediment investigations in port and harbor environments. Our goal is to expand the practice of environmental forensics to address questions that cannot be answered through direct measurement, including; How is stress to aquatic resources caused? What are appropriate sediment cleanup/recovery goals in waterways that support sensitive habitats and active commerce/recreation? Presentations will include traditional and emerging approaches illustrating the "forensic paradigm" applied to investigating physical, biological, and chemical conditions, and their interdependence in sediment ecosystems.

Conference Center Location:

1441 Kapiolani Blvd, Suite 2020, Honolulu, HI 96814

Phone: 808.946.2652

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Program Planning provided by:



Support for this workshop has been provided by:



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To REGISTER go to [www.EnvironmentalForensics.org](http://www.EnvironmentalForensics.org) and click on Registration



## *Harbors and Sediments*

April 20 – 21, 2006 • Honolulu, HI

### DAY ONE: April 20, 2006

- 7:30 – 8:30** Registration and Coffee  
*Introduction and Overview*
- 8:30 – 8:45** Welcome and Workshop Orientation  
Cynthia Langlois, *AEHS, Inc.*
- 8:45 – 9:30** Harbors and Sediments – Challenges and Directions  
Helen Mongillo, *Earth Tech, Inc.*
- 9:30 – 10:15** Historical Approaches in Environmental Forensics – Lines of Evidence  
Richard Wenning, Ph.D., *ENVIRON, Inc.*
- 10:15 – 10:30** Break
- Applying Forensic Approaches for Investigating Chemical Sources and Dynamics in Sediments*
- 10:30 – 11:15** Interpreting Petroleum Hydrocarbon Dynamics in Sediments from Chemical Data  
R. Paul Philp, Ph.D., *University of OK*
- 11:15 – Noon** Identifying PCB Fate Processes in Sediments  
TBA
- Noon – 1:00** Lunch
- 1:00 – 1:45** An Integrated Approach for Evaluating Sources and Background Conditions of Dioxins and Related Compounds in Sediments  
Steven Huntley, Ph.D., *Blasland, Bouck and Lee, Inc.*
- 1:45 – 2:30** Trace Metal Signals in Hawaiian Sediments: Elucidating Background from Anthropogenic Signatures  
Eric DeCarlo, Ph.D., *University of HI*
- 2:30 – 2:45** Break
- 2:45 – 3:30** Unexploded Ordnance in Harbors and Offshore Environments  
John Cullinane, JD, Ph.D., *U.S. Army Engineer Research and Development Center*
- 3:30 – 4:15** Statistical Tools – Trends, Clusters and Measurement Error  
Paul Scott, *ChemRisk, Inc.*

Adjourn

### DAY TWO: April 21, 2006

- 8:30 – 9:00** Review of Day 1 and Introduction to Day 2  
Philip Spadaro, L.G., *Blasland, Bouck & Lee, Inc.*
- Seafloor and Subsurface Imaging—Forensic Tools for Investigating the Sediment Environment*
- 9:00 – 9:45** Framing a View of the Seafloor: Imaging Approaches for Environmental Forensics  
Drew A. Carey, Ph.D., *CoastalVision, Inc.*
- 9:45 – 10:30** Hydroacoustic Surveys for Geomorphic Assessment of the Seafloor  
Richard McGee, Ph.D., *Global Remote Sensing, LLC*
- 10:30 – 10:45** Break
- 10:45 – 11:30** Conducting Sediment Investigations without 19th Century Tools—A Picture is Worth a Thousand Worms  
Joseph Germano, Ph.D., *Germano & Associates, Inc.*
- 11:30 – 12:15** Direct Push Video Imaging for Subsurface Investigations  
TBA
- 12:15 – 1:30** Lunch
- 1:30 – 2:15** Diagnostic Field tools for Location and Quantification of Contaminated Groundwater Discharge Zones to Surface Water  
D. Bart Chadwick, Ph.D., *SPAWAR Systems Center*
- 2:15 – 3:00** What Does it Mean? Forensic Toxicology as the Next Step in the Process  
David Ludwig, Ph.D., *Blasland, Bouck & Lee, Inc.*
- 3:00 – 3:15** Break
- 3:15 – 4:00** Overview of Pearl Harbor Sediment Assessment  
Michelle Yoshioka, *U.S. Naval Facilities Engineering Command Pacific*

Adjourn

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*The International Society of Environmental Forensics (ISEF)* was created to facilitate communication and foster cooperation among professionals concerned with the evaluation of environmental contamination using environmental forensic techniques from a scientific or legal basis. The society is an international consortium of practitioners and faculty from a wide range of disciplines including: analytical chemistry, geochemistry, atmospheric chemistry, environmental fate assessment, environmental transport assessment and those involved with environmental litigation.

Environmental forensics includes investigating, interpreting and presenting evidence of source, fate, transport, composition, age, extent of or responsibility for contamination of all environmental media (i.e. air, soil, water or biota). The techniques are used to answer the following questions:

***WHO CAUSED THE CONTAMINATION?***

***WHEN DID THE CONTAMINATION OCCUR?***

***HOW DID THE CONTAMINATION OCCUR?***

***WHO COULD BE THE POTENTIALLY RESPONSIBLE PARTIES?***

***HOW DO YOU ALLOCATE REMEDIATION COSTS?***

***WHAT CAN BE INTERPRETED FROM THE ANALYSES?***

The goal of ISEF is to provide educational workshops and training on techniques that encompass the aspects of environmental forensics such as chemical fingerprinting, aerial photography, isotope age-dating of chemicals, geology and hydrogeology, field techniques and new equipment, laboratory methods and quality control, fate and transport modeling and environmental crime investigations. The society also serves to promote the publication, and dissemination of relevant technical material in the journal *Environmental Forensics*, the official journal of ISEF.

For more information about the society contact  
the Managing Director, Cynthia Langlois, at:  
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