



Environmental Forensics: Focus on Emerging Contaminants

**June 7-8, 2005
Sheraton Oceanfront
Virginia Beach, VA**

Workshop Moderator: Ioana G. Petrisor, Ph.D., Managing Editor of *Environmental Forensics Journal*, DPRA, Inc., San Marcos, CA

Day One: Tuesday, June 7, 2005

- 8:00-8:30 **Registration** (coffee)
- 8:30-8:45 **Welcome and Workshop Orientation – What are Emerging Contaminants?**
Ioana G. Petrisor, Ph.D., DPRA, Inc., San Marcos, CA
- 8:45-9:30 **Cost Allocation Techniques for Emerging Chemicals**
Stephen F. Hilfiker, M.S., CFEA, REPA, Environmental Risk Management, Inc., Fort Myers, FL
- 9:30-10:15 **MTBE Groundwater Monitoring Data: Can You Trust Your Data and What Questions Do You Ask in Deciding?**
Michael J. Wade, Ph.D., Wade Research, Inc., Marshfield, MA
- 10:15-10:45 Break**
- 10:45-11:30 **Current State-of-the-Practice of Perchlorate Forensics**
William E. Motzer, Ph.D., Todd Engineers, Emeryville, CA
- 11:30-12:15 **The Use of Stable Isotopes as a Tool for Monitoring the Origin and Fate of Emerging Contaminants**
R. Paul Philp, Ph.D., University of Oklahoma, Norman, OK
- 12:15-1:45 Lunch**
- 1:45-2:00 **Introduction to the Afternoon Session**
Ioana G. Petrisor, Ph.D., DPRA, Inc., San Marcos, CA
- 2:00-2:45 **Analytical Methodologies for the Detection of Perchlorate**
William E. Corl, III, M.S., EAC, Naval Facilities Engineering Command Atlantic Division, Norfolk, VA
- 2:45-3:30 **Usage Histories for Emerging Contaminants – A Forensic Tool**
John Kearns, Plexus Scientific Corporation, Columbia, MD
- 3:30-4:00 Break**

4:00-4:45 **Evaluation of Emerging Compounds in Aquifers - Using Modeling as a Forensic Tool**
Brendan M. Harley, Ph.D., CDM International, Inc., Cambridge, MA

4:45 Adjourn

***WINE AND CHEESE WELCOME RECEPTION IMMEDIATELY
FOLLOWING ADJOURNMENT (4:45 – 6:00)***

Day Two: Wednesday, June 8, 2005

8:00-8:15 **Welcome and Introduction to the Morning Session – Day 2**
Ioana G. Petrisor, Ph.D., DPRA, Inc., San Marcos, CA

8:15-9:00 **Forensic Techniques and Investigation for PBDEs**
Monica Danon-Schaffer, University of British Columbia and NovaTec Consultants, Inc.,
Vancouver, BC, Canada

9:00-9:45 **Fate, Transport, and Persistence of PFOA and Related Perfluorochemicals**
Paul E. Rosenfeld, Ph.D., University of California – Los Angeles, Venice, CA

9:45-10:15 Break

10:15-11:00 **PDBE Flame Retardants In The Environment: Enigmatic or Obvious?**
Rob Hale, Ph.D., Virginia Institute of Marine Science, Gloucester Point, VA

11:00-11:45 **Potential Application of Dendroecology as a Tool to Age Date Emerging Contaminants**
Gil Oudijk, Triassic Technology, Hopewell, NJ

11:45-1:00 Lunch

1:00-1:15 **Introduction to the Afternoon Session**
Ioana G. Petrisor, Ph.D., DPRA, Inc, San Marcos, CA

1:15-2:00 **Contaminant Source Characterization: A Critical First Step for Forensic Hydrological Application of Emerging Contaminants**
Patrick J. Phillips, US Geological Survey, Troy, NY

2:00-2:45 **Fingerprinting of Various Petroleum Hydrocarbon Responses in Whole Air Samples**
Alyson Fortune, ENSR Air Toxics Laboratory, Harvard, MA

2:45-3:15 Break

3:15-4:00 **The Accumulation and Biotransformation of Polybrominated Diphenyl Ethers (PBDEs) in Aquatic Food Webs**
Heather M. Stapleton, National Institute of Standards & Technology, Gaithersburg, MD

4:00-4:45 **Characterization of PAHs from Urban Background Sources**
Diane L. Saber, Ph.D., Gas Technology Institute, Des Plaines, IL

4:45 Adjourn

Sheraton Oceanfront Hotel Information:

Located directly on the Virginia Beach oceanfront and boardwalk, the Sheraton Oceanfront Hotel, is a destination in itself. The hotel is within walking distance to shops, restaurants, and pubs, yet is located in the exclusive North End of the resort strip where you can get away from the crowds and relax.

Hotel Amenities: heated indoor pool; outdoor pool with pool bar; two hot tubs; high-speed wireless Internet; On-site dining at the Four Bays Restaurant or Reef Lounge.

The Four Bays Restaurant, located within the Sheraton Oceanfront Hotel, offers fresh local seafood, daily Chef Specials and a panoramic view of the ocean and boardwalk, from two-story high bay windows.

All 198 guest rooms have been newly renovated, featuring the Sheraton "sweet sleeper" beds - pillow top mattresses with plush bedding.

Local Attractions:

- Virginia Marine Science Museum, The Old Coast Guard Station, and Nauticus - the National Maritime Museum.
- Ocean Breeze Fun Park, First Landing State Park, and the Virginia Beach Amphitheater featuring national acts.
- Bicycles, rollerblades, windsurfing, and jet ski rentals.
- Oceanfront cruises, deep-sea fishing, parasailing, and boat rentals.

Visit the Sheraton Oceanfront website for a full description of hotel amenities:

www.vabeach.com/sheraton

Sheraton Oceanfront
36th & Atlantic Avenue
Virginia Beach, VA 23451
Tel: 800-521-5635 or 757-425-9000
Fax: 757-428-5352
www.vabeach.com/sheraton

Room Rate: Single/Double: \$119.00 + tax

- Participants are responsible for making their own room reservations. Please contact the hotel at the above phone number to make a reservation.
- Cut off date for reservations: May 16, 2005 to receive the above rate.
- You must mention the group name (ISEF) to receive our special group rate listed above.
- Check in time 4PM, check out time 11AM
- 72 hour cancellation notice

Travel Information:

The closest airport is Norfolk International Airport (airport code ORF), which is 18 miles or 25 minutes from the hotel. The Airport has a shuttle service that runs to the oceanfront and back; "Norfolk Airport Express" can be reached at 800-643-2197. Fares per person: \$28.00 one-way or \$51.00 round trip. Fares are reduced for two or more people. Reservations are not necessary from the airport - Norfolk Airport Express is located outside baggage claim at the booth marked "Airport Express Shuttle Service." Helpful site: www.norfolkairport.com

Williamsburg/Newport News International Airport is also an option, however it is considerably further (50 miles) and would require a rental car. Helpful site: www.nnwairport.com