

**June 18-19, 2009**

**Hotel Regina Palace  
Stresa, Italy**



*The Association for Environmental Health and Sciences  
and the International Society of Environmental Forensics  
are proud to present:*



## **ENVIRONMENTAL SUCCESS IN TREATMENT OBJECTIVES - BEST PRACTICES IN SUSTAINABLE SOIL, SEDIMENT, AND GROUNDWATER REMEDIATION: AN INDUSTRY AND REGULATORY PERSPECTIVE**

This workshop uniquely integrates real-world perspectives of several prominent organizations deeply involved in addressing some of Europe's most pressing contaminated site remediation challenges. Environmental regulators from EU (Italy, Czech Republic, Denmark, others) and US, site engineers and remediation consultants from EU and US, academics, and leading technology providers have been recruited to share their current best practices on a range of important topics affecting impacted soil, sediment, and groundwater sites. "Sustainability" has become a widely-used term in the environmental industry, yet often with varied meanings. For purposes of this workshop, participants will explore sustainable developments in risk assessment, forensics, fundamental research, and innovative engineering applications for both traditional and emerging contaminants. We will examine progress with recent advances in environmental biotechnologies, monitoring tools, remedial design and management; the interaction of bioremediation with other remedial approaches; and European applications of bioremediation. The workshop will be conducted by EU & US industry and regulatory representatives, with a stated goal to compare different regulations and best practices in order to identify the best sustainable solutions to adopt in the environmental field.

This Seminar is presented by AEHS and ISEF with support from the following sponsors:



AECOM





## WORKSHOP AGENDA

Hotel Regina Palace, Stresa, Italy

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# ENVIRONMENTAL SUCCESS IN TREATMENT OBJECTIVES - BEST PRACTICES IN SUSTAINABLE SOIL, SEDIMENT, AND GROUNDWATER REMEDiation: AN INDUSTRY AND REGULATORY PERSPECTIVE

- 9:00 am – 9:10 am *Introduction*  
Paul Kostecki, Ph.D., AEHS, Amherst, Massachusetts, USA
- 9:10 am – 9:40 am *Contaminated Sites Management and Environmental Liability in Italy: Regulatory and Technical Aspects*  
Laura D'Aprile, P.E., ISPRA-APAT, Rome, Italy
- 9:40 am – 10:10 am *Contaminated Sediments Management in Italy*  
Luciano De Propis, P.E., ISPRA-ICRAM, Rome, Italy
- 10:10 am – 10:40 am *Remedial Activities as Part of the Urban and Environmental Requalification Foreseen by Expo 2015: Experience of the Remediation Office, Contaminated Sites Sector, Province of Milano*  
Rosanna Cantore, P.G., Province of Milano, Milan, Italy
- 10:40 am – 11:10 am *Break*
- 11:10 am – 11:50 am *Remediation and Reuse of Contaminated Industrial Sites: Status, Experiences and Development of the Italian Situation*  
Claudio Mariotti, P.G., Sviluppo Italia, Aree Produttive, Rome, Italy
- 11:50 am – 12:30 pm *Remediation and Environmental Damage: Liabilities Foreseen by the New Italian Environmental Code*  
Prof. Matteo Benozzo, University of Macerata, Macerata, Italy  
Prof. Francesco Bruno, University of Molise, Campobasso, Italy
- 12:30 pm – 2:00 pm *Lunch*
- 2:00 pm – 2:40 pm *Contaminated Site Management in the Czech Republic*  
Pavla Kacabova, Head of Environmental Damage Department, Czech Ministry of Environment, Prague, Czech Republic
- 2:40 pm – 3:20 pm *Proven Methods for Successfully Engineered Introduction of Remediation Amendments into Impacted Groundwater Environments*  
Rajandrea Sethi, Politecnico di Torino, Turin, Italy  
Alessandro Ferrero, Carsico S.r.l., Turin, Italy
- 3:20 pm – 3:50 pm *Why Forensics Is Important*  
Gil Oudijk, Triassic Technologies, Hopewell, New Jersey, USA
- 3:50 pm – 4:30 pm *Use of Analytical Forensics to Assess the Effectiveness of Natural Attenuation Enhancers*  
Javier Santillan, Ph.D., US Air Force, Brooks City-Base, Texas, USA
- 4:30 pm – 5:30 pm *Wine & Cheese Welcome Reception*

- 9:00 am – 9:40 am *Innovative Approach for Establishing Remedial Objectives for PAHs in Sediment*  
Rudi Ruggeri, P.G., AECOM Environment, Milan, Italy
- 9:40 am – 10:20 am *Development of a Tool to Evaluate the Sustainability of Remedial Alternatives: Application to an Italian Sediment Superfund Site*  
Alessandro Battaglia, Ph.D., P.E., AECOM Environment, Milan, Italy
- 10:20 am – 11:00 am *In Situ and Reactive Capping Technologies*  
John Hull, P.E., AquaBlok Ltd, Toledo, Ohio, USA
- 11:00 am – 11:20 am *Break*
- 11:20 am – 12:00 pm *In Situ Remediation: In Situ Chemical Reduction Technologies – Differentiators and Implementation*  
Jim Mueller, Ph.D., Adventus Group, Freeport, Illinois, USA
- 12:00 pm – 12:40 pm *In Situ Remediation: In Situ Chemical Oxidation Technologies – Capabilities, Limitations, and Implementation*  
Piero Mori, P.G., ERM, Milan, Italy
- 12:40 pm – 2:00 pm *Lunch*
- 2:00 pm – 2:35 pm *Isotopes for Forensic Fingerprinting and the Monitoring of Natural Attenuation and Remediation*  
Paul Philp, Ph.D., University of Oklahoma, Norman, Oklahoma, USA
- 2:35 pm – 3:10 pm *Quantitative Indices of Hydrocarbon Weathering in the Environment: Use in Forensic Investigations for Age Dating and Fingerprinting*  
Michael Wade, Ph.D., Wade Research, Marshfield, Massachusetts, USA
- 3:10 pm – 3:30 pm *Break*
- 3:30 pm – 4:00 pm *Age Dating of Diesel Fuel Spills*  
Gil Oudijk, Triassic Technologies, Hopewell, New Jersey, USA
- 4:00 pm – 4:30 pm *US Air Force Environmental-Restoration-Program-Optimization Lessons Learned, and Return on Investment*  
Javier Santillan, Ph.D., US Air Force, Brooks City-Base, Texas, USA
- 4:30 pm – 5:30 pm *How to Proceed Together in EU Round Table Discussion with Regulators and Industry Leaders*  
Moderator: Paul Kostecki  
Panelists: Laura D'Aprile, Rosanna Cantore, Pavla Kacabova, Rudi Ruggeri, Mike Mueller, Javier Santillan
- 5:30 pm *Adjourn*

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## Hotel Regina Palace

In the Lake Region of Northern Italy, lies The Regina Palace, a 4-star luxury hotel overlooking Lake Maggiore, in the beautiful town of Stresa. The hotel is flanked by charming views of the Borromees Islands and the stunning Swiss Alps in the distance. Recently renovated, Hotel Regina has all the comforts and amenities of a modern hotel, while offering the rich history and décor of a 100 year-old European luxury palace. Two onsite restaurants, The Liberty and The Charleston, offer sophisticated, intimate settings and top quality cuisine. Choose inside dining with a view of the lake or dine outside on the patio amongst delightful gardens and

elegantly manicured landscape. The hotel is a short walk to town, shopping, restaurants, and boat excursions to the historical Islands Borromees.

Visit the website for the full description of the hotel and amenities: [www.regina-palace.it](http://www.regina-palace.it)

### Hotel Regina Palace

**C.so Humberto I, 33**

**28838 Stresa**

**Phone +39 0323 936936**

**Fax +39 0323 936666**

**Email [alessandra@regina-palace.it](mailto:alessandra@regina-palace.it)**

### Room Rate *(Includes full breakfast):*

Double for single use: Euro 156,00 + 10% VAT

Double: Euro 216,00 + 10% VAT (Euro 108,00 + VAT 10% per person)

Participants are responsible for making their own room reservations.

Please contact the hotel at the above phone, fax, or email.

You must mention the group name (ISEF/AEHS) to receive these special rates.

Check In 14,00 – Check Out 11,00

Internet card available at the Reception Desk (Euro 25,00 for 24hours connection – Euro 5,00 for 30minutes)

### Travel Information:

The closest airport is Malpensa (45 km/28 mi), which takes about 50 minutes by car and about 2 hours by bus/train. Milano Linate Airport is also an option, however it is considerably further (110km/66 mi) and could add 2-3 hours to the trip due to having to traverse the city of Milan.

Options for getting from Malpensa to Stresa include scheduling a car service, bus/train combo, or renting a car.

### Car Service:

Borroni Agency, Phone number 0039 0323 30251 or [borronilimo@stresa.net](mailto:borronilimo@stresa.net)

### Bus/Train:

There is a bus from Malpensa that will take you to Gallarate Train Station, where there is a train to Stresa. The trip takes about 2 hours depending on how long you have to wait at Gallarate for the connection to Stresa. The hotel is within walking distance from the train station in Stresa.

Helpful Site: [www.malpensa-airport.com](http://www.malpensa-airport.com)

### Car Rental:

Several Car Companies are available from Malpensa airport. Please visit [www.malpensa-airport.com](http://www.malpensa-airport.com) for further information. Complimentary parking is available at the hotel.



## About AEHS and ISEF



**The Association for Environmental Health and Sciences (AEHS)** was created to facilitate communication and foster cooperation among professionals concerned with the challenge of soil, sediment and water assessment, cleanup and protection. Decades of experience continue to indicate a strong need for a consistent and reliable knowledge network for the exchange of information derived from multiple sources and disciplines. AEHS is pleased to be able to provide this service since its inception in 1990 through publications, meetings and collaborative partnerships around the world. AEHS members represent the many disciplines involved in making decisions and solving problems affecting environmental cleanups, including chemistry, geology, hydrogeology, law, engineering, modeling, toxicology, regulatory science, public health, and public policy. AEHS recognizes that widely acceptable solutions to the problems of environmental contamination can be found only through the integration of scientific and technological discovery, social and political judgment, and hands-on practice. The Association welcomes members to provide input and energy in activities and thanks them for their tireless efforts for the good of the environment and humankind.



The International Society of Environmental Forensics (ISEF) grew out of the need for a platform for 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 via membership and distribution of the journal, *Environmental Forensics*, the official journal of ISEF.

### ***AEHS and ISEF activities include:***

- Peer-Review expert panels and committees
- Research oversight and coordination
- National and international workshops, seminars, and conferences
- Development and distribution of published materials including journals, books and multimedia.
- Both organizations offer membership

For more information about the Association, Society, or membership contact our offices or visit our websites:

Tel: 001 (413) 549-5170 • Fax: 001 (413) 549-0579

brenna@aehs.com • [www.aehs.com](http://www.aehs.com) • [www.environmentalforensics.org](http://www.environmentalforensics.org)



# WORKSHOP Registration Form

Stresa, Italy



Mr.  Ms.  Dr.

Name: \_\_\_\_\_

Company or Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

### REGISTRATION FEES

General Registration.....	\$499.00
ISEF or AEHS Member .....	\$399.00
Government Agencies, NGO, Academic Affiliation (Faculty, Staff, and Students) .....	\$199.00

#### **Registration Fee Includes:**

- Course Enrollment for 2 days
- Course Handouts
- Morning and Afternoon Refreshments (2 days)
- Lunch (2 days)
- Welcome Reception/Social

### MEMBERSHIP OPTIONS

**2009 Membership to AEHS (see [www.aehs.com](http://www.aehs.com))** *Special reduced rate for workshop participants (save 25%)*

Membership includes one of the following journals for the 2009 Calendar Year (back issues will be sent). ..... \$100.00

- Please select one:  Soil & Sediment Contamination (SSC)  Human & Ecological Risk Assessment (HERA)  
or  International Journal of Phytoremediation (IJP)

**2009 Membership to ISEF (see [www.environmentalforensics.org](http://www.environmentalforensics.org))**

Please select one:

- Electronic *and* Hard copy journal, Environmental Forensics (EF) ..... \$150.00  
 Electronic only journal, Environmental Forensics (EF)..... \$75.00

**LATE REGISTRATION FEE** Received after June 1st ..... ADD \$50.00

**TOTAL WORKSHOP FEES** ..... \$ \_\_\_\_\_

#### **Please indicate method of payment**

Check (please make checks payable to AEHS)  Purchase Order Number \_\_\_\_\_

P.O. number must be submitted with this form, fee is to be paid in full by June 1, 2009

Please Charge:  MasterCard  Visa  Discover  American Express

Account Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

Purchase orders will be accepted from institutions and agencies for the purpose of pre-registration only. Full payment must be received in our office by June 1st, 2009. Non-compliance will result in a \$25.00 processing fee, in addition to a late fee for any resulting billings. Cancellations will result in a \$50 cancellation fee. Refunds will not be issued after June 1st, 2009.

Please fax or send completed form along with full payment **BY June 1st TO AVOID LATE FEE** to:

**AEHS/ISEF, 150 Fearing Street, Suite 21, Amherst, MA 01002, USA**

**Tel: (001) 413-549-5170 Fax: (001) 413-549-0579**

**or email conference coordinator Brenna Lockwood: [brenna@aehs.com](mailto:brenna@aehs.com)**

[www.aehs.com](http://www.aehs.com)

[www.EnvironmentalForensics.org](http://www.EnvironmentalForensics.org)