



FINAL PROGRAM

**THIRD BIENNIAL SOUTHEASTERN
IN SITU SOIL AND GROUNDWATER
REMEDICATION CONFERENCE 2012**

Redox Tech, with sponsorship from the Association of Environmental & Engineering Geologists (AEG) Carolinas Section, is organizing the Biennial Southeastern *In Situ* Soil and Groundwater Remediation Conference. The conference will be held on March 6th and 7th 2012 in Raleigh, North Carolina, returning to the Renaissance Marriott at North Hills.

Past attendance at this conference has exceeded 200. The conference will provide a forum for providing the state of the art for a wide range of in situ remediation technologies. On the first day of the conference, recognized speakers from around the country will present on their area of expertise. On the

second day, case studies will be provided by consultants and vendors on the application of emerging technologies, with lessons learned.

The Conference should provide a valuable opportunity for groundwater professionals to keep abreast of recent developments in remediation technologies, while potentially earning continuing education credits. Also, be sure to visit the AEG Carolinas Section booth or visit the following website to join AEG online or print a membership application <http://www.aegweb.org/i4a/pages/index.cfm?pageid=3327>

CONFERENCE DETAILS

Pre-registration will be available Monday the 5th from 6 to 8 pm. Display booths will be set up at this time also.

DAY ONE AGENDA:

- 7:00 to 8:00 a.m. Breakfast (provided with registration) and Registration
- 9:00 a.m. to Noon Morning Invited Speakers
- Noon to 1:00 p.m. Lunch provided with Registration
- 1:00 to 4:30 p.m. Afternoon Invited Speakers
- 4:30 to 6:00 p.m. Evening Social and Poster Session

DAY TWO AGENDA:

- 7:00 to 8:00 a.m. Breakfast (provided with registration)
- 8:00 a.m. to Noon Morning Accepted Speakers
- Noon to 1:00 p.m. Lunch provided with Registration
- 1:00 to 4:00 p.m. Afternoon Accepted Speakers

COST

The cost of registration for the conference is \$250, and includes continental breakfast, coffee and tea at breaks, and lunch. The evening social is a cash bar, but light snacks will be provided. Discounts are available for AEG members, students or State Employees (reduced rate of \$200). Each participant will be responsible for their own dinner and lodging. Redox Tech is the promoter and main sponsor of the conference, with AEG Carolinas Section as co-sponsor, none of whom are directly profiting from the conference. The cost covers direct costs such as the conference room, lunch, beverage, snacks, and A/V equipment rental. Participation is limited to the first 250 registrants. Registration is fully refundable up to one week prior to registration, less an administrative fee of \$25. If you cannot attend, your registration may be transferred to another participant. Single day registrations are not available. Your credit card will be charged at the time of registration.

ABSTRACT SUBMISSION

Limited spots are available for presentations by vendors and consultants. Abstracts must be submitted by December 2, 2011 in electronic format to abstract@redox-tech.com. Notification of acceptance will be made by December 16th, 2011. Presentations materials for selected abstracts must be provided by February 28th to be included in the program

SPONSORSHIP AND DISPLAY BOOTHS

Display booth areas are available on a first-come basis for \$950. Access to an electrical receptacle is \$50 additional with limited availability. The cost includes two registrations with full access privileges. We have room for 16 booths. The exact layout has not been determined. We are seeking sponsors for the social hour on Tuesday, March 6th and breakfast on each of the mornings. Sponsorship cost is \$300 and includes prominent display of your company name and logo.

Sponsorships are available on a first-come basis. There will be an end-of-day raffle, and we are seeking gifts to raffle from vendors and consultants. Display booths will be charged to credit cards one month prior to the conference. For Booth registration, please contact us via phone at 919-678-0140 for information.

HOTEL

The conference is being held at the Marriott Renaissance Raleigh Hotel in North Carolina – [Renaissance Raleigh North Hills Hotel](#). The hotel is a reasonable drive from the Raleigh Durham Airport (RDU). The hotel does not offer free shuttle service, but it does have free parking. A block of rooms has been reserved at a discounted pre-registration rate of \$169 per night. Simply use the link above, check availability, and the discounted rate will appear. The block of rooms is being held until February 10, 2012. There are other hotels in the area, but if you need a room, reserve early because they may be limited.

REGISTRATION INFORMATION

Name _____
(Name as you wish it to appear on your badge)

Company _____

Address (City, State, Zip) _____

Phone (office) _____ Fax _____

Email _____

Academia ___ Consultant ___ Govmt Employee ___ Industry ___ Other ___ (Check one)

PAYMENT METHOD (Payment MUST accompany this registration form)

Payor : _____ Company _____ Individual _____

Check (Payable to REDOX TECH, LLC) _____

Credit card: ___ Mastercard ___ Visa ___ Corporate card? _____

Card Number _____ Exp. Date _____

CVV Number (the three digit code on the back of card) _____

Name on card (Print) _____

Card billing address (City, State, Zip) _____

Cardholder's signature _____

MAIL completed
registration form to:
Redox Tech, LLC
200 Quade Drive
Cary, NC 27513

or FAX to: 919-678-0150
Attn: Conference

or EMAIL to:
conference@redox-tech.com

For Booth Registration, contact
us via phone at 919-678-0140
for information

IMPORTANT NOTES!!

Free wireless internet access is available throughout the hotel venue
Two computers with printer near the lobby with internet access that are available for use
Course approved for 16 PDH by the SC Board of Geologists
Social hour includes one free drink coupon – cash bar thereafter – all soft drinks are free
Talks will be available for downloading from www.redox-tech.com by March 13, 2012

DAILY SCHEDULES

March 5, 2012 Pre-registration, sign-in and display booth setup is from 6:00 p.m. to 8:00 p.m.

March 6, 2012

7:00 to 8:00 **Continental Breakfast** Provided with Conference Registration
8:00 to 8:15 Opening Remarks; *John Haselow, Redox Tech LLC*
8:15 to 8:45 History of Peroxygens for *In Situ* Remediation; *Dick Brown, ERM*
8:45 to 9:15 Superoxide: Recent Findings and Potential Future Applications;
Rick Watts, Washington State University
9:15 to 9:45 Sustained Release Permanganate for *In Situ* Remediation of
Organic Contamination; *Pamela Dugan, Carus Corporation*
9:45 to 10:15 Treatment of Shallow Bedrock Zone Aquifers Using Ozone;
Dave Robinson, Synergy Environmental Inc.
10:15 to 10:45 **Mid-Morning Break**
10:45 to 11:10 Innovations in Chemical Oxidation: New Tools for Advanced
Desorption and Activation; *Meredith Lanoue, VeruTEK*
11:10 to 11:35 Geophysics for Sustainable Site Characterization;
Mark Kluger, Dajak
11:35 to 12:00 *Remediation Focused Decision Making – Applying Next
Generation Decision Making, William Davis, Triad Env. Svcs.*
12:00 to 1:15 **Lunch** Provided with Conference Registration
1:15 to 1:40 Temporary and long-term Impact of Persulfate ISCO and Metal
Mobility; *Kawalpreet Kaur, Clarkson University*
1:40 to 2:05 An Update on Experiments with Persulfate at High pH
Joe Rossabi, Redox Tech LLC
2:05 to 2:30 Unusually Stable Persulfate following NaOH-Activated Persulfate
Application; *Susanne Borchert, CH2M HILL*
2:30 to 3:00 The Use of Lime and Cement as Activators of Persulfate Chemical
Oxidation; *Phil Block, FMC Chemicals*
3:00 to 3:30 **Mid-Afternoon Break**
3:30 to 3:55 *In Situ* Lead Stabilization of Industrial Fill Material Baltimore Harbor,
Maryland, Bernd Rehm, Resolution Partners
3:55 to 4:20 *In Situ* Chemical Oxidation in Brazil; *Isaac Aboulifia, MEC^x*
4:20 to 4:45 Proposed Rule Changes for Injection Wells in North Carolina
Thomas Slusser, NCDENR
4:45 to 6:30 **Evening Social**

March 7, 2012

7:00 to 8:00 **Continental Breakfast** provided with conference registration
8:00 to 8:30 Advances in ISCR: Remedial Amendments and Application
Strategies; *Jim Mueller, FMC Adventus*
8:30 to 8:55 “Real-Time” Treatment Optimization Utilizing In-Situ Chemical
Oxidation; *Dan Bryant, Geo-Cleanse International*
8:55 to 9:20 Applying Proton Reduction and Bioaugmentation
for Site Remediation; *Robert Steffan, Shaw Environmental, Inc.*
9:20 to 9:45 *In Situ* Source Zone Remediation via ZVI-Clay Soil Mixing;
Mitch Olson, Colorado State University
9:45 to 10:10 *Bioremediation of a Petroleum and Solvent Plume during
Redevelopment of a Municipal Facility, Sean Carter, Matrix*
10:10 to 10:45 **Mid-Morning Break**
10:45 to 11:10 Recent Advances on the Biodegradation of Chlorinated Methanes;
Jeff Roberts, SIREM
11:10 to 11:35 Update: Full-Scale Enhanced Bioremediation of CVOCs in a Sand
and Gravel Aquifer; *Tim Adams, Roux Associates, Inc.*
11:35 to 12:00 Vadose Zone Remediation by Passive Soil Vapor Extraction
Brian Riha, Savannah River National Laboratory
12:00 to 1:00 **Lunch** Provided with conference registration
1:00 to 1:25 Coupling Oxidant and Reductive Technologies to Reduce
Contaminant Mass and Mitigate Plume Migration;
Laura Simpkins, Rogers & Callcott
1:25 to 1:50 Bioremediation Pilot Test Using Bioaugmentation – Is it Worth it?
Tony Lieberman, Solutions-IES
1:50 to 2:15 Injection of a Carbon Source to Stimulate Anaerobic
Biodegradation of a Mixed Chlorinated Solvent Plume;
Christa Nunn, Conestoga Rovers & Associates
2:15 to 2:40 The Use of Horizontal Sparge Wells for the Remediation of LNAPL;
Andrew Shull, URS Corporation
2:40 to 3:15 Cometabolic Bioremediation Using Gas Infusion Technology;
Gary Birk, Tersus Environmental, Inc.
3:15 to 3:40 Application of Biodegradable Oils (VOS™) for Treatment of CVOCs
in the Vadose Zone; *Stephen Richardson, EOS Remediation, LLC*
3:40 to 3:45 **Closing Remarks and Gift Card Raffle**, John Haselow

SPONSORS AND EXHIBITORS

