

## Risk Assessment and Vapor Intrusion Training

**October 7–8, 2014**

**8:00 a.m. to 5:00 p.m.**

**Orlando, FL**

**Register Now**

### Course Overview

This intermediate to advanced level comprehensive two-day applied course presents an in-depth discussion on the application of risk assessment (RA) and the evaluation of indoor vapor intrusion pathway (IVIP) for the management of contaminated sites and the evaluation of IVIP. Several state and federal programs have developed guidance documents and tools to implement RA as well as the IVIP.

This training program presents an (i) in-depth understanding of the RA and IVIP process, (ii) fundamental technical concepts, (iii) regulatory framework, (iv) its application to a variety of sites and (v) the assumptions and limitations of the process.

The course will also present the methods available to cost-effectively evaluate the indoor vapor intrusion pathway (IVIP), develop and implement site-specific work plans.

### Course Highlights

- Technical basis & objective of RA and IVIP
- Development of site exposure model
- Forward and backward modes of RA
- Data needs to implement the RA process
- Relevant federal and state regulations
- Technical resources available, software, and site specific examples
- Options to evaluate the IVIP pathways, and
- Development and implementation of IVIP work plans.

### Who Should Attend

The course will benefit professionals from industry, consulting, and regulatory agencies who perform site investigations; oversee or review health risk assessments for remediation of contaminated sites; manage and evaluate IVIP; and establish and negotiate environmental cleanup levels.

### Professional Development Hours

Participants will earn 16 continuing education credits towards Professional Engineer (PE) and Professional Geologist (PG) requirements as applicable (please enquire with us for specific



Source: The Interstate Technology & Regulatory Council

### Lead Instructor

Dr. Atul M. Salhotra is an internationally recognized expert in the cost-effective management of contaminated sites.



His expertise and opinions are sought after and trusted by regulators, industries, and the courts by virtue of his having developed risk based decision making programs for the management of chemically impacted sites for more than 15 states. He is the lead author, project manager, and developer of Risk-Based Corrective Action (RBCA) programs for numerous states, and the U.S. Air Force in Europe (USAFE). As one of the original nine ASTM approved trainers for RBCA, he has conducted training courses in over 25 states and 10 countries. Over 6,000 individuals have attended his courses, and their careers have benefited from the training received.

Dr. Salhotra is well versed in the site-specific application of risk assessment, evaluation of indoor vapor intrusion, natural attenuation, and fate and

state requirements).

### Learning Objectives and Benefits

After attending this course, you will be able to:

- Develop risk based work plans to collect the right quality and quantity of data for RA and IVIP
- Perform RAs and IVIP evaluations
- Develop site-specific risk based cleanup levels
- Explain and negotiate the results of risk assessments
- Understand the inherent variability and uncertainty in the results of RA and IVIP
- Understand various state and federal guidance documents related to RA and IVIP

Hands-on calculations and case studies will improve the understanding of the concepts discussed. Site specific examples presented will help demonstrate the practical use of implementing risk assessment process in regulatory negotiation, and establishing clean-up goals for a variety of sites under UST, RCRA, CERCLA, and other programs.

**Participants are requested to bring calculators.**

### Training Location

University of Central Florida  
3280 Progress Drive, Suite 700  
Orlando, FL 32826

[Directions](#)

View the on-line [Agenda](#) (PDF: 202KB)

We reserve the right to cancel the course if there are less than 12 participants.

Registration/Fee		
Registration Category	By Sept. 20	After Sept. 20
Individual – Standard Rate	\$695	\$745
AIPG/FAPG members (with current membership)	\$645	\$695
Group Registration (3 or more people from same organization)	\$625	\$675
Cancellation requests received less than 7 days prior to the course will be charged a \$150 cancellation fee. All fees will be forfeited if cancellation is made less than 2 days prior to the course. Substitutions are acceptable.		
Complete the <a href="#">registration form</a> and submit along with payment by mail or fax to the address or fax number found on the registration form.		

transport modeling for the cost-effective management of sites. He has supervised over 200 risk assessments under state and federal programs involving hydrocarbons, solvents and metals, and has successfully defended the results with regulatory agencies and other stakeholders across the country.

Dr. Salhotra has provided litigation support, including testimony in courts, on numerous high-profile projects related to the migration of plumes under people’s homes, the allegation of adverse health effects due to vapor intrusion, and diminution of property values. Several of these projects involved public meetings, risk communication presentations, and media coverage. He is a recognized expert by regulators, industry, and lawyers and provides senior level third party review of consulting reports as well as cost-effective management of liabilities due to contaminated sites.

For more details contact us via email at [admin@ramgp.com](mailto:admin@ramgp.com).



**Gannett Fleming**  
**Risk Assessment &  
Management Group**

*Excellence Delivered **As Promised***



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

**ISO** 9001:2008  
CERTIFIED

5433 Westheimer Road, Suite 725, Houston, TX 77056

© 2014 [Gannett Fleming, Inc.](#)

To be removed from this list, [unsubscribe](#) via email.