



# Stray Gas Migration: Preparedness Incident Response and Investigation Training

Wednesday, November 18, 2015

*Sponsored by Moody & Associates, Inc.*

6 Professional Development Hours (PDH) available!

The Marcellus Shale Coalition's Stray Gas Workgroup in conjunction with ECHELON Applied Geoscience Consulting are pleased to offer a Stray Gas Migration: Preparedness - Incident Response and Investigation training. This training is being offered to all oil and gas industry stakeholders.

The course will provide a comprehensive approach for preparedness and the protocol for investigations of allegations of subsurface stray gas contamination. The content will focus on methane migration in the subsurface, and will provide a methodology that includes response and investigation protocol, sampling and analyses of gas and groundwater geochemistry parameters, monitoring, methane fate and transport, well diagnostics and remediation technologies. Discussions will include the basis for carbon and hydrogen isotope analyses, considerations for monitoring and data interpretations, and case studies.

## Instructor

**Fred Baldassare**, *Owner/Principal Geoscientist*  
ECHELON Applied Geoscience Consulting

Fred Baldassare has more than 25 years of experience in the geosciences, and has investigated more than 200 incidents of stray gas migration. Fred is an experienced researcher who has helped pioneer the application and advancement of isotope geochemistry to identify and distinguish the origin of different microbial and thermogenic gases. He was the lead scientist for investigations of stray gas contamination during his tenure with the Pennsylvania Department of Environmental Protection, the primary author for Pennsylvania's Oil & Gas regulations (25 PA. CODE CH. 78, §78.89) for stray gas incident response and the Marcellus Shale Coalition's technical guidance manual for stray gas investigations. Fred has published in peer reviewed journals on the application of isotope geochemistry to identify the origin of subsurface gases since 1997.

## Agenda

8:00 – 8:30 am	Registration and Continental Breakfast
8:30 – 10:00 am	Regulatory and Policy Initiatives/Properties Light Gases/Sampling Protocols
10:00 – 10:15 am	Break
10:15 – 11:00 am	Stray Gas Origin and Source Correlation/Isotope Analysis/Case Studies
11:00 am – 12:00 pm	Evaluation of Geochemistry Data/Sampling Considerations/Case Studies
12:00 – 1:00 pm	Lunch
1:00 – 2:00 pm	Stray Gas Migration Response Protocol/Combustible Gas Field Screening, Surveys Monitoring and Data Evaluation
2:00 – 2:15 pm	Break
2:15 – 3:30 pm	Subsurface Gas Migration: Fate and Transport/Public Health and Safety /Remedial Measures and Design
3:30 – 4:00 pm	Q&A

**Register** (*per person*)

**Deadline: November 16**

- \$300** Oil and Gas Industry Operators, Consultants and Contractors  
**\$270** Oil and Gas Industry Operators, Consultants and Contractors (*Receive a 10% discount per attendee when registering 3 or more attendees from one company*)

**To register:** [www.straygastraining.eventbrite.com](http://www.straygastraining.eventbrite.com)  
*Admission fees are non-refundable.*

## Location

Marcellus Shale Coalition Offices  
24 Summit Park Drive, 2<sup>nd</sup> Floor  
Pittsburgh, PA 15275

For more information and other training opportunities, please visit [www.marcelluscoalition.org/get-involved](http://www.marcelluscoalition.org/get-involved) or contact Sarah Braun, Events Manager, at [sbraun@marcelluscoalition.org](mailto:sbraun@marcelluscoalition.org).