



Technical Workshops

US EPA 2010 Study of the Relationship Between Hydraulic Fracturing and Drinking Water



What?	Four technical workshops will be held to discuss the following topics related to hydraulic fracturing and drinking water: Chemical & Analytical Methods; Well Construction and Operations; Fate and Transport; and Water Resource Management
Why?	Workshop discussions will inform EPA on focused subjects integral to hydraulic fracturing to enhance overall study and increase collaborative opportunities
Where?	EPA Potomac Yards Conference Facility in Alexandria, Virginia
When?	Chemical and Analytical Methods, February 24-25, 2011 Well Construction & Operations, March 10-11, 2011 Fate and Transport, March 28-29, 2011 (1.5 days) Water Resource Management, March 29-30, 2011 (1.5 days)
How?	Presentations by a panel of subject-matter experts followed by discussion sessions on focused topics

Nominations for Subject-Matter Experts
Deadline: January 3, 2011

EPA is seeking subject-matter experts to participate in technical workshops for the Hydraulic Fracturing Study. Experts will contribute to the workshops as presenters and provide technical knowledge during workshop discussions.

Meeting space is limited and EPA will select several subject-matter experts for a panel and approximately 40-50 experts for attendance at each workshop. Experts with significant relevant and current experience that reflects the topics of the technical workshops will be selected. Subject-matter experts will also be selected to maintain balanced viewpoints from various stakeholder groups including industry, environmental, academic, and regulatory communities.

Experts wishing to participate in a technical workshop should apply at <http://hfworkshop.cadmusweb.com> from December 13, 2010 – January 3, 2011. Please be prepared to submit a brief description highlighting relevant career experience, knowledge of current issues and practices, and any collaborative efforts to which you contributed. EPA will notify selected experts by January 14, 2011.

For more information, please contact Jill Dean at dean.jill@epa.gov

Workshop Themes

Chemical and Analytical Methods
 February 24-25, 2011

- fracturing fluid composition
 - chemical limitations on recycling
 - alternative water sources
- chemical/analytical methods
 - challenges of complex matrices
 - radionuclides in high TDS
- determining methane sources
- in situ* chemical transformations and mobilization of contaminants
- stable isotope analysis

Well Construction & Operations
 March 10-11, 2011

- well construction and integrity
- area of review
- geologic characterization
- fracturing of formations
 - injection pressures
 - potential for fluid migration into underground sources of drinking water
- fracture propagation verification
- management of sites with multiple wells
- operational practices

Fate and Transport
 March 28-29, 2011

- modeling accuracy
- chemical transformations
- pathway predictions
- fracture network -- created & existing
- use of models for gas and fluid pathways
- methane migration

Water Resource Management
 March 29-30, 2011

- water use & sustainability
- flowback and produced water management
 - recoverability of flowback -- accuracy of predictions, quantity and controlling variables
 - variability in composition
 - risks to public and environment
 - on-site management
 - treatment, disposal, recycling