

# "The Hot Topics in UIC"



**GWPC 2012 UIC Conference**  
**January 23-25, 2012**  
**Crowne Plaza Downtown**  
**Houston, TX**



**Monday, January 23<sup>rd</sup> Registration Opens 8:00 AM Bluebonnet Foyer**

10:00 AM-  
4:00 PM

**Bluebonnet A**

**Class I UIC Operator Training**  
**Session: Steve King, Subsurface Technologies**

**Part 1 – Power Point presentation/training, Class overview/basics**

- History of Injection and Overview of UIC Program
- Permitting
- Petitioning
- Siting Criteria, Geology, and Reservoir Properties
- New Class I Well Construction Well Repair and Workovers
- Operating Procedures
- Fluid Quality
- Inspections
- Mechanical Integrity Testing
- Reservoir Testing
- This is an interactive course. Questions from the participants are encouraged.

**Part 2 – Roundtable well discussion**

- We are planning an interactive UIC roundtable discussion and training session to cover areas of interest to each and every person attending. If you have a specific well problem or just an area you may like to get a more thorough understanding, please let us know and we will cover those items. If you do not have a specific item you want covered we also encourage you to attend.

**Bluebonnet B**

**Hydraulic Fracturing Seminar**  
 Welcome: **Mike Nickolaus, GWPC**

**Part 1- Regulatory Considerations for Hydraulic Fracturing and Groundwater Protection**

- Regulatory Panel - **Leslie Savage**, Railroad Commission of Texas, **Lori Wrotenbery**, Oklahoma Corporation Commission, **Don Drazan**, New York Department of Environmental Conservation, and **Joe Lee**, Pennsylvania Department of Environmental Protection
- Draft Regulatory Development Guide – **Scott Kell**, Consulting Geologist
- Hydraulic Fracturing on Federal Lands – **Michael Nedd**, Bureau of Land Management

**Part 2- Technical considerations for Hydraulic Fracturing and Groundwater Protection**

- Overview of geology, depositional environments, thickness, areas of gas production- **Eric Potter**, Texas Bureau of Economic Geology
- Geochemistry of Shale gas basins including NORM and trace elements – **J.P. Nicot**, Texas Bureau of Economic Geology
- Water Used for Hydraulic Fracturing: Amounts, Sources and Reuse – **Dan Hardin**, Texas Water Development Board

**Lunch on your own**

- Casing/ cementing and well integrity - **Tom Tomastik**, Ohio Department of Natural Resources
- Introductory Description of Hydraulic Fracturing - **Lloyd Hetrick**, Newfield Energy
- Ground Water Baseline Testing for New Oil and Gas Activities – Why? What’s Important? How to conduct? - **Wilma Subra**, Subra Company
- Baseline Water Well Testing Standard for Coalbed Methane Operations in Alberta- **Brent Bowerman**, Baseline Water Resource Inc.
- Tracking Water Quality of Wells in the Vicinity of Hydraulic Fracturing Operations in Colorado Using the RBDMS Water System– **Paul Jehn**, GWPC
- Development of “Greener” Alternatives - **Greg Bradley**, Dow Microbial Control
- Open discussion of new technologies, processes related to hydraulic fracturing

**Tuesday, January 24<sup>th</sup> Registration Opens 7:00 AM Bluebonnet Foyer**

8:00 AM-9:00 AM	<b>Bluebonnet A</b> Opening General Session Welcome from <b>Stan Belieu</b> , Nebraska Oil & Gas Conservation Commission, GWPC President <b>Ann Codrington</b> –Director, USEPA Drinking Water Protection Division, Office of Ground Water & Drinking Water <b>Dewayne Quertermous</b> , Sierra Club	
	<b>Bayou Ballroom</b> <b>General UIC Issues</b>	<b>Bluebonnet A</b> <b>Hydraulic Fracturing</b>
9:00 AM-10:10 AM	CO <sub>2</sub> Geosequestration: Updates on federal implementation, state primacy and program needs Moderator: <b>Jimmy Sparks</b> , Mississippi Department of Environmental Quality <ul style="list-style-type: none"> <li>• Status of DI programs and state primacy applications –<b>Lisa McWhirter</b>, USEPA</li> <li>• Advancing GS Projects Under a New Regulatory Regime - <b>Bob Van Voorhees</b>, Carbon Sequestration Council</li> <li>• Class VI UIC Program Implementation and permitting- <b>Molly Bayer</b>, USEPA</li> <li>• A Generic Standard for Underground injection of CO<sub>2</sub>- <b>Michael Leering</b>, CSA Standards</li> </ul>	Regulation of hydraulic fracturing Moderator: <b>Stan Belieu</b> , Nebraska Oil & Gas Conservation Commission <ul style="list-style-type: none"> <li>• Chemical disclosure at the state level- <b>John Veil</b>, Veil Environmental</li> <li>• NY SGEIS: Lessons learned, a process for interagency and inter-department collaboration.- <b>Don Drazan</b>, New York Department of Environmental Conservation</li> <li>• Results of the GWPC Research on Alleged Contamination Incidents from oilfield activities: Final Report- <b>Scott Kell</b>, Consulting Geologist</li> </ul>

**10:10 AM- 10:30 AM Break Bluebonnet Foyer**

10:30 AM-12:00 PM	<ul style="list-style-type: none"> <li>• Update on the EPA Class VI Data System- <b>Joe Tiago</b>, USEPA</li> <li>• Methane Farming through Use of Indigenous Microbes - <b>Roland P. DeBruyn</b>, Luca Technologies Inc.</li> <li>• Updates on the activities of the UIC National Technical Workgroup – <b>Susie McKenzie</b>, USEPA Region 6</li> <li>• Update on the changes to the API Well Numbering System – <b>Donald Drazan</b>, New York Department of Environmental Conservation</li> </ul>	Updates of ongoing and recent hydraulic fracturing studies: Moderator: <b>Mike Paque</b> , GWPC <ul style="list-style-type: none"> <li>• The USEPA Hydraulic Fracturing Study- <b>Bruce Kobelski</b>, USEPA</li> <li>• Methane occurrence in water wells overlying the Marcellus- <b>Lisa Molofsky</b>, GSI Environmental, Inc.</li> <li>• A Geochemical Context for Stray Gas Investigations in the Northern Appalachian Basin: Implications of Analyses of Natural Gases from Quaternary-through-Devonian-Age Strata - <b>Fred Baldassare</b>, ECHELON Applied Geoscience Consulting</li> </ul>
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12:00 PM- 1:30 PM Lunch

**Bluebonnet B**

Guest Speaker  
**Rich Haut**,  
 Environmentally Friendly Drilling



Thanks to our lunch sponsor!



**Tuesday, January 24<sup>th</sup> continued**

1:30 PM- 2:30 PM	<b>Bayou Ballroom</b> <b>Class I UIC Wells, Moderator: Lindsey Taliaferro</b> <b>Ohio EPA</b> <b>(An open forum on issues related to Class I UIC Wells)</b> <ul style="list-style-type: none"><li>• UIC Class I Program Priorities for 2012- <b>Bob Van Voorhees</b>, Underground Injection Technology Council</li></ul>	<b>Bluebonnet A</b> <ul style="list-style-type: none"><li>• University of Texas Hydraulic Fracturing Study <b>J.P. Nicot</b>, Texas Bureau of Economic Geology</li><li>• The Parker County, Texas Study- <b>Peter Pope</b>, Texas Railroad Commission</li><li>• Update on GAO's Plan to Study Unconventional Reservoir Resources and Identify Risks Associated with Hydraulic Fracturing, <b>Jay Spaan</b>, U.S. General Accounting Office</li><li>• Question and answer session</li></ul>
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**2:30 PM-3:00 PM Break Bluebonnet Foyer**

3:00 PM- 5:00 PM	<b>Bayou Ballroom</b> <b>Class III and V Wells, Moderator: Ben Knape,</b> <b>Texas Commission on Environmental Quality</b> <b>(An open forum on issues related to Class III and V UIC Wells)</b> <ul style="list-style-type: none"><li>• Class V in Texas: <b>Bryan Smith</b>, Texas Commission on Environmental Quality</li><li>• ASR Impediments: <b>John Meyer</b>, Texas Water Development Board</li></ul> General Discussion Topics: <ul style="list-style-type: none"><li>• EPA ASR Studies</li><li>• Flowing Class III and V Date to USEPA</li><li>• Aquifer Exemptions Issues for Class III and V</li><li>• Decentralized Waste Water Initiatives- Implications for Class V programs</li><li>• Stormwater Disposal- Class V Issues</li></ul>	<b>Bluebonnet A</b> <b>Class II Wells, Moderator: Mark Bohrer, North Dakota Industrial Commission</b> <b>(An open forum on issues related to Class II UIC Wells)</b> <ul style="list-style-type: none"><li>• Propagation of Hydraulic Fractures in the Subsurface: A Multi-basin study- <b>Kevin Fisher</b>, Flotek</li><li>• Induced seismicity resulting from underground injection operations: A UIC National Technical Workgroup study- <b>Susie McKenzie</b>, USEPA Region 6</li><li>• BLM Legacy Wells: Environmental Hazards and Eyesores – <b>Cathy Foerster</b>, Alaska Oil and Gas Commission</li></ul>
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**5:30 PM- 7 PM Reception— Bluebonnet B: Sponsored in part by...**



**Wednesday, January 25<sup>th</sup> Registration Opens 7:00 AM Bluebonnet Foyer**

8:00 AM-9:00 AM	<p><b>Bluebonnet Ballroom A</b></p> <p>State EPA UIC Issues Roundtable  <b>Lindsey Taliaferro</b>, MDEQ and a <b>Bruce Kobelski</b>: Moderators  <i>(State and EPA Regulators Only Please)</i></p>		
9:00 AM-10:00 AM	<p><b>Bluebonnet Ballroom A</b></p> <p>Class VI Permitting:          Addressing Specific Rule Requirements: USEPA GS Implementation Team, HQ</p>	9:15 AM – 12:30 PM	<p><b>Bluebonnet Ballroom B</b></p> <p>The FracFocus Chemical Disclosure System: Training for Participating Companies</p> <ul style="list-style-type: none"> <li>• The FracFocus system: Its design, features and purposes- <b>Mike Nickolaus</b>, GWPC</li> <li>• Introduction to the Texas rule concerning chemical disclosure- <b>Leslie Savage</b>, Railroad Commission of Texas</li> <li>• How to register a company and manage users in the system- <b>Mark Layne</b>, ALL Consulting</li> <li>• 10:45 AM- 11:00 AM Break: <b>Bluebonnet Foyer</b></li> <li>• How to download and complete the template and upload records in FracFocus- <b>Brian Woodard</b>, Chesapeake Energy</li> <li>• Managing records and common problems encountered- <b>Mark Layne</b>, ALL Consulting</li> <li>• Question and answer session</li> </ul>

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**Gaylord Opryland Resort -- September 23-26, 2012 -- Nashville, Tennessee**