GWPC 2012 UIC Conference  
January 23-25, 2012  
Crowne Plaza Downtown  
Houston, TX  
Monday, January 23rd  
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.

| 10:00 AM-4:00 PM | 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  
• Tracking Water Quality of Wells in the Vicinity of Hydraulic Fracturing Operations in Colorado Using the RBDMS Water System– Paul Jahn, GWPC  
• Development of “Greener” Alternatives - Greg Bradley, Dow Microbial Control  
• Open discussion of new technologies, processes related to hydraulic fracturing
### Tuesday, January 24th  Registration Opens 7:00 AM  Bluebonnet Foyer

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
<th>Speaker/Author</th>
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<tbody>
<tr>
<td>8:00 AM - 9:00 AM</td>
<td>Bluebonnet A</td>
<td>Opening General Session</td>
<td>Welcome from Stan Belieu, Nebraska Oil &amp; Gas Conservation Commission, GWPC President Ann Codrington –Director, USEPA Drinking Water Protection Division, Office of Ground Water &amp; Drinking Water Conservation Program Moderator: Dewayne Quertermous, Sierra Club</td>
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<tr>
<td>9:00 AM - 10:10 AM</td>
<td>Bayou Ballroom</td>
<td>General UIC Issues</td>
<td>Coreostap: Updates on federal implementation, state primacy and program needs</td>
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<td>• Status of DI programs and state primacy applications –Lisa McWhirter, USEPA</td>
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<td>• Advancing GS Projects Under a New Regulatory Regime - Bob Van Voorhees, Carbon Sequestration Council</td>
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<td>• Class VI UIC Program Implementation and permitting- Molly Bayer, USEPA</td>
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<td>• A Generic Standard for Underground injection of CO2- Michael Leering, CSA Standards</td>
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<td>9:00 AM - 10:10 AM</td>
<td>Bluebonnet A</td>
<td>Hydraulic Fracturing</td>
<td>Regulation of hydraulic fracturing</td>
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<td>• Chemical disclosure at the state level- John Veil, Veil Environmental</td>
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<td>• NY SGEIS: Lessons learned, a process for interagency and inter-department collaboration. - Don Drazan, New York Department of Environmental Conservation</td>
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<td>• Results of the GWPC Research on Alleged Contamination Incidents from oilfield activities: Final Report- Scott Kell, Consulting Geologist</td>
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<td>10:10 AM - 10:30 AM</td>
<td>Bluebonnet Foyer</td>
<td>Break</td>
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<td>10:30 AM - 12:00 PM</td>
<td>Bluebonnet A</td>
<td>Updates of ongoing and recent hydraulic fracturing studies</td>
<td>Moderator: Mike Paque, GWPC</td>
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<td>• The USEPA Hydraulic Fracturing Study- Bruce Kobelski, USEPA</td>
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<td>• Methane occurrence in water wells overlying the Marcellus- Lisa Molofsky, GSI Environmental, Inc.</td>
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<td>• A Geochemical Context for Stray Gas Investigations in the Northern Appalachian Basin: Implications of Analyses of Natural Gases from Quaternary-through-Devonian-Age Strata - Fred Baldassare, ECHELON Applied Geoscience Consulting</td>
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<td>12:00 PM - 1:30 PM</td>
<td>Bluebonnet B</td>
<td>Lunch</td>
<td>Thanks to our lunch sponsor!</td>
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<td>Time</td>
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| 1:30 PM-2:30 PM | Bayou Ballroom     | Class I UIC Wells, Moderator: Lindsey Taliaferro  
Ohio EPA  
(An open forum on issues related to Class I UIC Wells)  
- UIC Class I Program Priorities for 2012-  
Bob Van Voorhees, Underground Injection Technology Council |
|              | Bluebonnet A        | University of Texas Hydraulic Fracturing Study  
J.P. Nicot, Texas Bureau of Economic Geology  
The Parker County, Texas Study- Peter Pope,  
Texas Railroad Commission  
Update on GAO’s Plan to Study Unconventional Reservoir Resources and Identify Risks  
Associated with Hydraulic Fracturing, Jay Spaan, U.S. General Accounting Office  
- Question and answer session |
| 2:30 PM-3:00 PM | Bluebonnet Foyer    | Break |
| 3:00 PM-5:00 PM | Bayou Ballroom     | Class III and V Wells, Moderator: Ben Knape,  
Texas Commission on Environmental Quality  
(An open forum on issues related to Class III and V UIC Wells)  
- Class V in Texas: Bryan Smith, Texas Commission on Environmental Quality  
- ASR Impediments: John Meyer, Texas Water Development Board  
General Discussion Topics:  
- EPA ASR Studies  
- Flowing Class III and V Date to USEPA  
- Aquifer Exemptions Issues for Class III and V  
- Decentralized Waste Water Initiatives-Implications for Class V programs  
- Stormwater Disposal- Class V Issues |
|              | Bluebonnet A        | Class II Wells, Moderator: Mark Bohrer, North Dakota Industrial Commission  
(An open forum on issues related to Class II UIC Wells)  
- Propagation of Hydraulic Fractures in the Subsurface: A Multi-basin study- Kevin Fisher,  
Flotek  
- Induced seismicity resulting from underground injection operations: A UIC National Technical Workgroup study- Susie McKenzie, USEPA Region 6  
- BLM Legacy Wells: Environmental Hazards and Eyesores – Cathy Foerster, Alaska Oil and Gas Commission |
<p>| 5:30 PM-7 PM  | Reception—Bluebonnet B | Sponsored in part by...     |</p>
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| 8:00 AM-9:00 AM | Bluebonnet Ballroom A | State EPA UIC Issues Roundtable  
Lindsey Taliaferro, MDEQ and Bruce Kobelski: Moderators  
(State and EPA Regulators Only Please) |
| 9:00 AM-10:00 AM | Bluebonnet Ballroom A | Class VI Permitting:  
Addressing Specific Rule Requirements: USEPA GS Implementation Team, HQ |
| 9:15 AM – 12:30 PM | Bluebonnet Ballroom B | The FracFocus Chemical Disclosure System: Training for Participating Companies  
- The FracFocus system: Its design, features and purposes - Mike Nickolaus, GWPC  
- Introduction to the Texas rule concerning chemical disclosure - Leslie Savage, Railroad Commission of Texas  
- How to register a company and manage users in the system - Mark Layne, ALL Consulting  
- 10:45 AM-11:00 AM Break: Bluebonnet Foyer  
- How to download and complete the template and upload records in FracFocus - Brian Woodard, Chesapeake Energy  
- Managing records and common problems encountered - Mark Layne, ALL Consulting  
- Question and answer session |

A special thanks to our general conference sponsors

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Ground Water Protection Council

- **Annual Forum**
  - Groundwater Availability & Sustainability
  - Groundwater Energy Sustainability
  - Groundwater Quality

Visit... [www.gwpc.org](http://www.gwpc.org)

National Rural Water Association

Visit... [www.waterproconference.org](http://www.waterproconference.org)

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