

UIC CONFERENCE

February 11-14, 2018
Tulsa, Oklahoma

www.gwpc.org/events

Underground Injection Control Conference

Final Agenda

Tulsa, Oklahoma | February 11 – 14, 2018

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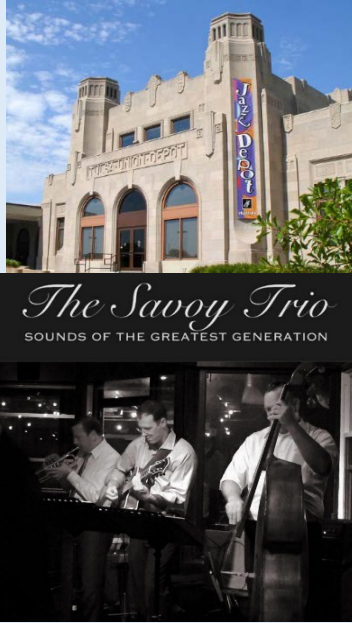
Sunday, February 11, 2018

3:00 – 5:30

6:00 – 8:00

Registration

Welcome Dinner – Oklahoma Jazz Hall of Fame - Featuring Live Music from the Savoy Trio

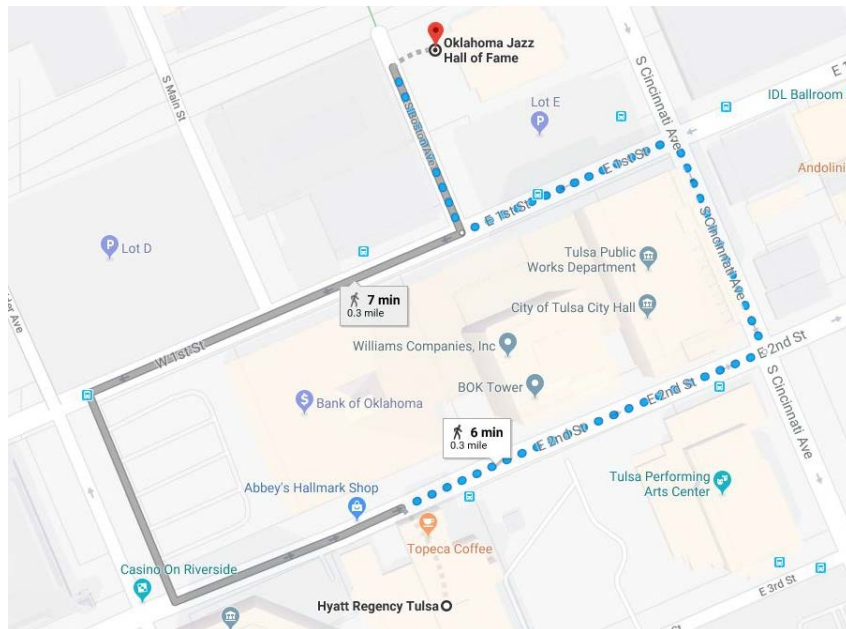


Welcome to Tulsa! Join us at the Oklahoma Jazz Hall of Fame, located in the historic Union Depot Building in downtown Tulsa, for live music, dinner, drinks and networking.

Consider the Oklahoma Jazz Hall of Fame, affectionately known as the Jazz Depot, your ambassador to the world of live entertainment and America's classical music - Jazz. The motto at the Jazz Hall of Fame is "Creating Unity Through Music." The efforts at the Jazz Hall are to educate Oklahomans, tourists and visitors about Oklahoma's amazing and diverse music heritage, and the impact the music and our outstanding Oklahoma artists have made to the fabric of music in this country and on the musical landscape throughout the world.

The Savoy Trio focuses on the sounds by which the Greatest Generation grew up in the early part of the 20th century. Based in Oklahoma City, the band features Jerry Scott on horns, Jason Combs on guitar, and Chris Black on bass.

- Dress is Business Casual
- Walking distance from the Hyatt Regency



Hyatt Regency Tulsa **100 E 2nd St, Tulsa, OK 74103**

Head northeast on E 2nd St toward S Cincinnati Ave
0.1 mi

Turn left onto S Cincinnati Ave
390 ft

Turn left onto E 1st St
394 ft

Turn right onto E 31st Pl N/S Boston Ave
Destination will be on the right
302 ft

Oklahoma Jazz Hall of Fame **5 S Boston Ave, Tulsa, OK 74103**

Monday, February 12, 2018

7:30 -5:00
 7:30 – 8:30
 8:30-10:00

Registration (Promenade Foyer)
Breakfast Buffet (Tulsa North Ballroom – First Floor)
Opening General Session (Promenade C/D)

“Welcome to Oklahoma”
 Scott Thompson, Director, Oklahoma Department of Environmental Quality

“UIC: State of the States”
 Secretary Mike Teague, Oklahoma, Office of the Secretary of Energy & Environment

“EPA Update”
 Peter Grevatt, Director, US Environmental Protection Agency, Office of Ground Water & Drinking Water

“UIC Program History/GWREF Initiative”
 Mike Paque, Executive Director, GWPC

10:00 – 10:30
 10:30-12:00

Morning Break (Promenade Foyer)
Produced Water (Promenade C/D) **Class III UIC Forum & Discussion (Promenade B)**

Moderator: John Baza, Utah Department of Natural Resources

“GWPC Produced Water Report Update”
 John Baza, Produced Water Report Co-Chair

“Practical Guidelines for Application of Natural Resource Valuation Concepts for Remediation of Produced Water Impacts on Groundwater”
 Mark Hemingway, GSI Environmental, Inc.

“The Water Challenge Program Pilot – Helping Companies Advance Water Management Strategies”
 Andra Wilcox, HARC - Environmentally Friendly Drilling (EFD) Program

“Permian & Anadarko Basin Produced Water Recycling: Keys to Success”
 Dan Arthur, ALL Consulting

Moderator: Lily Barkau, Wyoming Department of Environmental Quality

“Underground Storage of Natural Gas Liquids in Ohio’s Underground Salts”
 Tom Tomastik, All Consulting

“Implementing Cooperative Federalism in the UIC Program”
 Robert Van Voorhees, Underground Injection Technology Council

“Roundtable Discussion”

- 192 Rule – State and Industry Updates
- State Updates on EPA Aquifer Exemption Checklist
- Program Implementation Challenges for all Categories of Class III Injection
- Class III Program Guidance — Problems and Needs
- Identification of Educational Needs for Class III Staff

12:00-1:30
1:30 - 3:00

Lunch on your own	
Produced Water (Promenade C/D)	Class V UIC Forum & Discussion (Promenade B)
<p>Moderator: Michael Dunkel, Jacobs</p> <p><i>"Stepwise Progress to Alternate Uses of Produced Water in New Mexico"</i> Dr. Jeri Sullivan Graham, University of New Mexico</p> <p><i>"From Produced Water to Fresh Water - Technologies & Challenges"</i> Rick McCurdy, Chesapeake</p> <p><i>"If the Shoe Fits: Beneficial Produced Water Reuse Options in Oklahoma"</i> Michael Ford, Bureau of Land Management</p> <p><i>"Regulatory View of Produced Water: Increasing Optionality"</i> Jill Cooper, Anadarko Petroleum Corporation</p>	<p>Moderator: Lorrie Council, Texas Commission on Environmental Quality</p> <p><i>"And Now for Something Completely Different: Unusual Class V Wells in Texas"</i> Lorrie Council, Texas Commission on Environmental Quality</p> <p><i>"Presentation and Feedback: GWPC Class V Data Development Efforts"</i> William Blackwell, Ground Water Protection Council</p> <p><i>"Discussion Topics"</i></p> <ul style="list-style-type: none">• Class V and the Clean Water Act -- Groundwater/Surface Water Interaction• Class V Program Challenges: Implementation, Guidance, and Educational Needs• ASR and MAR issues/problems/successes/rules update

3:00 – 3:30
3:30 – 5:00

Break	
Class II & VI UIC Forum & Discussion (Promenade C/D)	Aquifer Storage & Recovery (Promenade B)
<p>Moderator: Kimberly Collings, Kentucky Division of Oil & Gas</p> <p><i>"Class II SWD Disposal Well Issues: Myth versus Reality...and Impacts we can Anticipate (and Avoid)"</i> Laura Capper, CAP Resources</p> <p><i>"Texas Aquifer Exemption Regulations"</i> Leslie Savage, Texas Railroad Commission</p> <p><i>"Reinvigorating Geologic Sequestration"</i> Robert Van Voorhees, Underground Injection Technology Council</p> <p><i>"Status of the California RBDMS UIC Upgrade"</i> Thom Kerr & Paul Jehn, GWPC</p>	<p>Moderator: John Veil, Veil Environmental, LLC</p> <p><i>"An Aquifer Storage & Recovery System to Preserve and Rehabilitate Native Groundwater in Hastings, Nebraska"</i> Amanda Jones, Nebraska Department of Environmental Quality</p> <p><i>"Aquifer Storage & Recovery in Oklahoma"</i> Saba Tahmassebi, Oklahoma Department of Environmental Quality</p> <p><i>"City of Ada LS-ASR Project"</i> Dr. Guy W. Sewell, The Oka' Institute</p> <p><i>"Current Aquifer Storage & Recovery Projects in Kansas"</i> Brian Meier, Burns & McDonnell</p>

5:30 – 6:30

Hotel Networking Hour (Tulsa North Ballroom – First Floor) - Light appetizers and cocktails served

Tuesday, February 13, 2018

7:30 – 5:00
 7:30 – 8:30
 8:30-10:30

Registration (Promenade Foyer)
Breakfast Buffet (Tulsa North Ballroom – First Floor)
General Session: Emergency Response to Weather Related & Other Events (Promenade C/D)

Moderator: Marty Link, Nebraska Department of Environmental Quality

“Environmental Response and Concerns from the 2017 Hurricane Season”
Bryan Shaw, Chairman, Texas Commission on Environmental Quality

“From Waste to Resource: A Changing Role for Storm Water”
Shellie Chard, Oklahoma Department of Environmental Quality

“RBDMS and WellFinder for Emergency Response”
Paul Jehn, RBDMS/GWPC

10:30 – 11:00
 11:00 -12:00

Break
Seismic Activity & Responses (Promenade C/D) **Class I UIC Forum & Discussion (Promenade B)**

Moderator: Charles Lord, Oklahoma Corporation Commission

“Evaluating the Efficacy of Wastewater Disposal Reductions in Oklahoma”
Dr. Jake Walter, Oklahoma Geological Survey

“2017 Review of UIC Risk Factors in Leading Onshore Oil and Gas Basins”
Laura Capper, CAP Resources

Moderator: Lindsay Taliaferro, Ohio Environmental Protection Agency

“How Several Common Factors Influence Injection Well Performance, Testing and Permitting: Density, Temperature, and Friction”
Ken Cooper, Petrotek Engineering Corporation

“Innovative Annulus Pressure Monitoring and Control Design for High Pressure Class I Wells with Depths in Excess of 10,000 Feet”
Monte Markley, SCS Engineers

12:00-1:30

Lunch on your own

1:30 – 3:00

Seismic Activity & Responses (Promenade C/D)	Class I UIC Forum & Discussion (Promenade B)
<p>Moderator: Charles Lord, Oklahoma Corporation Commission</p> <p><i>“Patterns of Induced Seismicity in Central and Northwest Oklahoma”</i> Dr. Jeremy Boak, Oklahoma Geological Survey</p> <p><i>“Induced Seismicity Management for Operators”</i> Mikel Diez, Geostock</p> <p><i>“Data Mining the Known Unknowns of Oklahoma’s Class II UIC Data to Improve Injection Induced Seismicity Studies”</i> Dr. Kyle Murray, Oklahoma Geological Survey</p> <p><i>“Forecasting injection-induced earthquake hazards in Oklahoma and Kansas”</i> Dr. Cornelius Langenbruch, Department of Geophysics, Stanford University</p>	<p>Moderator: Lindsay Taliaferro, Ohio Environmental Protection Agency</p> <p><i>“The Calculation of Injection Effects to Establish the Area of Review (AOR) for Class I Injection Wells”</i> Aaron Payne, Petrotek Engineering Corporation</p> <p><i>“UIC Class I Regulatory Challenges and Opportunities”</i> Robert Van Voorhees, Underground Injection Technology Council</p> <p><i>“Roundtable Discussion”</i></p> <ul style="list-style-type: none">• Program Implementation and Compliance Challenges• Severe Weather Planning and Response• Class I No Migration Petition Regulatory Update• Training Needs and Opportunities• Aging Wells, Temporary Abandonment, and Re-permitting Issues• Pore Space Competition - Sharing of certain information among UIC Class I and II Operators

3:00 – 3:30

3:30 – 5:00

Break	
General Session: Slurry Injection (Promenade C/D)	
<p>Moderator: Jill Cooper, Anadarko Petroleum Corporation</p> <p><i>“Permitting and Approval of Slurry Injection”</i> Jonathan Bishop, California State Water Resources Control Boards</p> <p><i>“Slurry Injection Design & Monitoring for Waste Containment Assurance”</i> Omar Abou-Sayad, Advantek</p> <p><i>“Injecting Oilfield Solids via Class II Disposal Wells”</i> Dan Arthur, ALL Consulting</p>	

Wednesday, February 14, 2018

7:30 -8:30	Registration (Promenade Foyer)	
7:30 – 8:30	Continental Breakfast (Promenade Foyer)	
8:30-10:00	Well Integrity Workshop (Promenade B) Instructor: Tom Tomastik , ALL Consulting This course will focus on understanding the key aspects of well integrity as they relate to different types of wells, including oil and gas development, injection wells, gas storage wells, and municipal waste disposal wells. This workshop will review the various well integrity testing methods and their applicability to a variety of well types as well as procedural requirements, supplemental information needed for analysis, and their limitations.	Reviewing and Critiquing Environmental Documents Workshop (Promenade A) Instructor: John Veil , Veil Environmental, LLC People who work in the environmental field are often asked to review reports, regulatory proposals, and other documents. In some situations, the documents being reviewed have little potential impact on the person or organization doing the review. But in other situations, the documents may pose a threat or have a significant impact on the reviewer. It is very important to conduct an orderly and careful review to ensure that the author of the document did a reasonable job. In this 90-minute workshop, instructor John Veil draws on more than 27 years of experience reviewing EPA and state proposed regulations and reviewing dozens of reports and other documents to share some guidelines on a sound approach to conducting reviews. The workshop discusses the four main elements for conducting a careful review. Those elements include: a) choosing appropriate data sources, b) making proper assumptions, c) conducting suitable analyses, and d) presenting results and conclusions that are justifiable and fair based on the material contained within the document. The workshop provides examples of how these play an important role in doing good research and setting good environmental policy. One of the more talked-about EPA documents in recent years (the December 2016 Hydraulic Fracturing Impacts on Drinking Water report) is used as the primary example to show weaknesses in data, assumptions, analyses, and interpretation/communication of results. Other examples come from serving as an expert witness, following good practices when writing your own documents (Veil’s 2015 report on produced water volumes and management practices is the example used here), misleading media reporting, and doing peer review of scientific manuscripts.
10:00 – 10:30	Break	
10:30-12:00	Well Integrity Workshop (Promenade B)	
12:00	Adjourn	

Conference Information

The GWPC is offering free conference Wi-Fi on our conference floor, sponsored by the Ground Water Research & Education Foundation.

Wi-Fi Network: @HyattMeeting

Wi-Fi Password: GWREF2018

Hyatt Regency Hotel

FIRST FLOOR LOWER LOBBY LEVEL



SECOND FLOOR LOBBY LEVEL



