

# Agenda CO<sub>2</sub> Conference Week 2018

as of Oct 29, 2018



*"It's where the field and office come together to make things happen"*

***Especially this Year!!!***

Once again, the Conference Committee for the 2018 CO<sub>2</sub> and ROZ Conference Week (Dec 3<sup>rd</sup> -6<sup>th</sup>, 2018) is busy with the planning and preparations for the entire CO<sub>2</sub> Conference week events including both the 16<sup>th</sup> annual EOR Carbon Management Workshop and the 24<sup>th</sup> Annual CO<sub>2</sub> Flooding and ROZ Conference.

This year's program begins Monday morning, December 3<sup>rd</sup> and continues thru Thursday the 6<sup>th</sup> at the Horseshoe Facility in south Midland. (<http://www.midlandhorseshoe.com/>).

2018 has been a very significant year. Much has occurred with the CCS, CO<sub>2</sub> EOR and ROZ subjects since the last conference. The economics of Carbon Capture Utilization and Storage (CCUS) took a huge step forward with the passage of the updated 45Q (Federal) tax credits this February. The horizontal drilling with the San Andres residual oil zones (ROZs) rapidly advanced to where over 37,000 barrels of oil per day are being produced in 6 different counties. Renewed worldwide enthusiasm occurred in CO<sub>2</sub> flooding projects as oil settled above \$50/bbl for the last 12 months and the first greenfield ROZ project is responding beautifully. Concurrent storage during EOR finally began being accepted as the least expensive way to securely store CO<sub>2</sub> from captured emission streams. All of these intertwined subjects will be addressed in detail during the Conference week.

The Monday and Tuesday events will focus on the CO<sub>2</sub> storage that occurs during a CO<sub>2</sub> EOR project. The Wednesday events start with a ½ day field trip to Kinder Morgan's new and expanding greenfield ROZ CO<sub>2</sub> flood north of Midland and is followed by the first of three ½ day theme sessions. This first session focuses on the exciting advances in horizontal drilling within the upper portions of the San Andres formation ROZs. The greater understandings and the many advances in completion techniques are the special topics in this session.

The Thursday AM and PM session will provide case histories of CO<sub>2</sub> EOR projects in the U.S. and Canada. The special loyalty of the Conference supporters over the years is bringing the conference some exciting case histories not publicly presented before and will be a part of the two Thursday sessions.

Details of each of the three subjects are provided below with both confirmed and invited speakers.

**Monday (Dec 3<sup>rd</sup>) "Carbon Management Workshop" - The latest in CO<sub>2</sub> capture and demonstration projects, future plans, legislative initiatives, and policy matters related to carbon capture, utilization and storage (CCUS)**

***"ARE THE WORLDS OF CCUS MERGING OR ARE THEY COLLIDING?"***

**Opening Day Program (Monday Dec 3<sup>rd</sup>): CO<sub>2</sub> EOR Carbon Management Workshop**

**8:00-12:00 Latest Policy, Regulatory, Project and Market Developments**

7:15 - 8:00 [Registration](#)

8:00 – 8:15 Opening Remarks - Michael Moore EWSA and Steve Melzer of Melzer Consulting

8:15-9:00 Keynote Opening Speaker Latest on ROZ, CO<sub>2</sub> EOR and CO<sub>2</sub> Storage - Vello Kuuskraa CEO Advanced Resources International (ARI)

9:00-9:30 Policy and Regulatory Updates – Post-midterm Elections Fred Eames Partner – Hunton Andrews Kurth

9:30-10:00 International Energy Status - Barry Worthington Executive Director of USEA

**10:00-10:20 Break**

10:20-10:50 Southern States Energy Board Updates - Kenneth Nemeth, Executive Director SSEB

10:50-11:20 Tim Thomas - Mitsubishi Heavy Industries America, Inc. - Latest on CO<sub>2</sub> Capture Deployment

11:20-11:40 Charlene Russell, Oxy's Low Carbon Ventures - Opportunities with CO<sub>2</sub>

11:40-12:00 Russell Martin, Perdure Energy - an Anthropogenic CO<sub>2</sub> EOR Pure Play in a Carbon Opportunity World

**12:00-1:20 Luncheon** and Keynote Speaker: Charles McConnell, Former Assistant Secretary US DOE Fossil Energy and Executive Director of Rice University's Energy and Environment

Initiative

**1:20 - 3:00 Projects, Programs, Technology Insights**

1:20- 1:50 Jeff Brown - Principal, Brown Brothers Energy & Environment LLC , Developing the Next CCUS Project

1:50-2:10 John Harju, UND - EERC: CO<sub>2</sub> EOR in Shale, ROZ and MPZ developments

2:10-2:30 Wayne Rowe Business Manager NA Decarbonization Projects, Schlumberger; CO<sub>2</sub> Storage Associated with Unconventionals/Shale

2:30:3:00 Jeff Erickson Global CCS Institute International and US CCUS Developments

**3:00-3:15 Break**

**3:15-5:30 Special Areas of Interest and Programs**

3:15-3:45 The Colorado Plateau CO<sub>2</sub> Study, Randy Eminger, ED Energy Policy Network

3:45-4:30 Latest on Geologic Storage Panel, Grant Bromhal NETL/NRAP and Dr. Sue Hovorka UTBEG/GCCC

4:30-5:00 Dan Cole, V.P. Denbury and the PBS/EERC Bell Creek CO<sub>2</sub> EOR and CCUS Story

5:00-5:30 Mike Godec, ARI - Importance of 45Q and Large-scale CO<sub>2</sub> EOR-Storage along with Wrap-Up and Pre-45Q Seminar Panel, Mike Moore, Steve Melzer, Dan Cole, Mike Godec

5:30 [Monday Program Conclusion](#)

**6:15-8:00 Monday Evening Reception at the Commemorative Air Force Hangar (<https://ghostsquadron.org/rss/471-midland-army-air-field-museum>) - featuring Historical Planes of WWII and the Midland Army Air Field Museum – Sponsor, Rockall Petroleum**

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## Day 2 Program (Tuesday Dec 4<sup>th</sup>): A Full Day Seminar on

### 45Q and CO<sub>2</sub> EOR's Vital Role in Carbon Management

#### **AM Session: What is 45Q and What is Different Now? Can the Worlds of CCS and CO<sub>2</sub> EOR Merge?**

- 7:30 – 8:00 [Registration and Continental Breakfast](#)
- 8:00 – 8:15 Welcome and Opening Remarks - Michael Moore, Workshop Director and EWSA©
- 8:15 – 9:00 Secrets in the 45Q Sauce: An Introduction to 45Q – Keith Tracy, Cornerpost CO<sub>2</sub> LLC©
- 9:00 – 9:30 Secure Geologic Storage: The Overlay of 45Q on Business-As-Usual CO<sub>2</sub> EOR – Mark DeFigueiredo, EPA Greenhouse Gas Reporting Program©
- 9:30 – 10:15 Three Small Letters That Pack a Punch: Strategies for 45Q “MRV” Plans
- Bob Mannes, Core Energy LLC©
  - Charlene Russell, Occidental Petroleum Corp©
- 10:15 – 10:35 [Networking Break](#)
- 10:35 – 11:20 Let's Make a Deal: Perspectives on 45Q Deal Structures
- EOR Producer Perspective – Ben Cook, Univ. of Wyoming EORI©
  - Financial Investor Perspective – Jeff Brown, Stanford©
  - Legal Perspective – David Lowman, Hunton Andrews Kurth©
- 11:20 – 12:00 Panel Discussion and Group Q&A (all morning speakers)
- 12:00 – 1:00 [Luncheon - Speaker: TBA](#)
- PM Session: Qualifying and Using 45Q: A Look into The Future**
- 1:00 – 1:30 Lone Star Leading: An Overview of Texas Geologic Sequestration Rules – Leslie Savage, Texas Railroad Commission ©
- 1:30 – 2:10 Permission Matters: Injection Well Strategies for 45Q Projects
- Class 2 Non-EOR Wells — Alberto Gutierrez, Geolex©
  - Class 6 Wells and Financial Security Requirements – tbd
- 2:10 – 2:30 Counting Up for EOR: Section 43 Comes Before 45Q – Jeff Lambert, Lambert Tax Consultants©
- 2:30 – 2:50 [Networking Break](#)
- 2:50 – 3:10 Guidance: Ten 45Q Questions the IRS Should Answer - tbd
- 3:10 – 3:50 Not Standing Still: Looking Back at Passage of 45Q Amendments, and Looking Forward to Future Policy Developments – Brad Crabtree, Carbon Capture Coalition©, and Kurt Waltzer, Clean Air Task Force©
- 3:50 – 4:30 New Intersections: How 45Q Interplays with ROZs – Steve Melzer, Melzer Consulting©
- 4:30 – 5:00 Concluding Remarks/Adjourn to Reception in the Education Room
- 5:00 – 7:00 [Reception Starts \(Heavy Hors Devours\) – Sponsors Brown Brothers Energy & Environment and NCS MultiStage](#)

[Reception ends 7:45 PM](#)

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## Day 3 Program (Wednesday, Dec 5<sup>th</sup>)

**AM Field Trip – Buses absolutely leave no later than 8:00 AM – don't be late!**

**A ½-Day Field Trip to Kinder Morgan's Tall Cotton Project (a “Greenfield” ROZ CO<sub>2</sub> Flood in an area littered with old dry holes and now making 3000 bopd) from one section (640 acres).**

*Box Lunch on Bus – Returning by 12:45 in time for Wednesday PM Theme Session*

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**Wednesday PM – First of Three ½-Day Theme Sessions**

**Theme Session #1: "San Andres Laterals in the ROZ: Operations and Case Histories"  
(Dec 5th: 1:00 to 5:15 pm)**

12:00-1:00	Catered Lunch at the Horseshoe Facility	
1:00-2:00	Signs of Another PB Resource Play - Update on Status of the San Andres Horizontal Play; Russell Hall ©, R.K. Hall and Associates w/ Contributions from R Trentham and S. Melzer	
2:00-2:40	The Evolution of Horizontal Well Completion Techniques; S. Stedman, Steward Energy©	
2:40-3:10	"The Growing Use of "Sliding Sleeves" and Lower Rate Hydrofracture Treatments"	NCS Multistage©
3:10-3:30	Break	Display/Exhibit of Sliding Sleeves
3:30-4:10	Formation Damage and Remediation	John Dobitz, Windy Cove©
4:10-4:45	Panel on Well Completions	Steward, Hadaway/Monadnock, Mammoth
4:45- 5:15	Merges into a Broader Panel Discussion	All Speakers
5:30-7:30	Wed Evening Reception at Permian Basin Petr Museum; Sponsor: Kinder Morgan and the PB Section of the SPE	

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**Day 4 Program: (Thursday Dec 6<sup>th</sup>)**

**Theme Session #2: "CO<sub>2</sub> Flooding & ROZ Operations and Case Histories"  
(Thursday, Dec 6th: 8:00 to 11:30 am)**

7:30-8:00	Continental Breakfast and Networking	
8:00-8:40	"Analogues to the San Andres Horizontal Play? - A Fresh Look at the Glorieta-Yeso Play in SE New Mexico" Steve Melzer - Melzer Consulting©, Evan Allard - Summer Intern, CO <sub>2</sub> ROZ Conference©	
8:40-9:10	"Recap of Monday Workshop & the 45Q Seminar" Mike Moore - Workshop Director©	
9:10 - 9:40	"The Oyster Bayou CO <sub>2</sub> Flood Case History"	Alton Ahrens, Denbury Resources©
9:40-9:50	A Quick Section 43 Update	Jeff Lambert, Lambert Tax Consultants©
9:45-10:10	Break	
10:10-10:45	"CO <sub>2</sub> Processing Rates: Too Fast/Slow?"	Scott Wehner, Wehner CO <sub>2</sub> onsulting LLC©
10:40-11:30	Speaker Panel Discussion	All Morning Presenters
11:30-1:00	Lunch at the HorseShoe Facility - Education Room	Keynote Speaker TBA

**Theme Session #3: "CO<sub>2</sub> Flood Operations and Case Histories" (Thurs, Dec 6th: 1:10 to 5:15 pm)**

1:00-1:40	"Horizontal Producers & Injectors at SACROC"	Clyde Findlay and Jeremy Pitts, Kinder Morgan CO <sub>2</sub> Company
1:40-2:20	"Monell Unit, Patrick Draw Field Case History	Fleur De Lis
2:20-3:00	Horizontal Well CO <sub>2</sub> Flooding: The Legacies and Exciting Future of the Weyburn CO <sub>2</sub> EOR Project (Canada)	Whitecap Resources Inc.
3:00-3:20	Break	
3:20-4:00	"PetroNova's West Ranch EOR Project" or Oklahoma EOR Projects Update	Perdure Petroleum
4:15-4:50	Conoco's E. Vacuum Field Update	Doug Pecore, Conoco©
4:50-5:15	Panel Discussion All Speakers	All Afternoon Presenters
5:15	<b>Conference Week Ends</b>	