



Tuesday, December 6, 2016

**EOR Carbon Management Workshop at the 22nd Annual CO₂ / ROZ Conference
Midland Horseshoe Education Room, Midland Texas**

Agenda (as of 11/22/16)

- 8:00-8:30 WELCOME AND WORKSHOP OPENING REMARKS: Michael Moore, FearnOil Inc. & Steve Melzer, APTA
- 8:30-9:15 KICKING US OFF: "The Prize - Latest Developments in the ROZ" Vello Kuuskraa, Advanced Resources International
- 9:15-9:45 "POLICIES, SECARB AND ICCUS"; Ken Nemeth, Southern States Energy Board and Bob Ivey, US DOE on a call in on the ICCUS efforts
- 9:45- 10:15 "State of the World and CCUS Policy," Barry Worthington, Exec Dir of US Energy Assoc
- 10:15-10:30 **BREAK**
- 10:30-11:00 "The View from DC and What to Expect," Fred Eames , Partner Hunton & Williams
- 11:00-11:20 "Updates and Developments at EERC," John Harju, VP for Strategic Partnerships at EERC
- 11:20-12:00 Projects Panel: "CO2 EOR and Life with Oil near \$50.00" Keith Tracy Director - CO2 Midstream Operations, Chaparral Energy & Russell Martin, Tabula Rasa
- 12:00-1:30 **LUNCH AND KEYNOTE SPEAKER:** Chuck McConnell Executive Director of Rice University's Energy and Environment Initiative
- 1:30-2:00 "Western Governors Association Update and Activity at U of Wy School of Energy Resources (SER)," Mark A. Northam Executive Director, SER"
- 2:00-2:30 "CCUS, CO2 EOR and Looking Ahead, " Greg Schnacke, Denbury Resources
- 2:30-2:45 **BREAK**
- 2:45-3:45 POLITICAL LANDSCAPE PANEL: Fred Eames Partner Hunton-Williams, Brad Crabtree, Director NEORI, Greg Schnacke/Dan Cole Denbury Resources, Barry Worthington USEA, Mike Moore FearnOil
- 3:45-4:45 TECHNOLOGY UPDATES PANEL: Traci Rodosta Carbon Storage Portfolio Manager U.S. Department of Energy National Energy Technology Laboratory, Professor. Arne Grau, affiliated with the Department of Physics and Technology at the University of Bergen and runs the NORTEX Petroleum Cluster
- 4:45-5:15 Issues and "Unburnable Fossil Fuels, Leave it in the Ground and Divestment" How CCUS fits in. MMoore/TBN
- 5:15-5:45 WRAP UP PANEL: Mike Moore, Steve Melzer, Vello Kuuskraa, and John Harju
- 5:45-7:30 **Tuesday Evening Reception at the Horseshoe Facility, Education Room (shuttle available from Reception to DoubleTree at 7:30 pm)**



Wednesday, December 7, 2016

Half Day Seminar at the 22nd Annual CO₂ Conference
Current Status and Advanced Recovery Concepts for the Horizontal San Andres ROZ Play
(as of 11/22/16)

- I. Status of Horizontal San Andres ROZ Play.....Steve Melzer / Russell Hall
- II. Status of ROZ CO₂ EOR.....Melzer / Dr. Robert Trentham
- III. Recovery Estimates and Commercial Challenges.....Russell Hall
- IV. Panel on Advanced Recovery in Horizontal Plays (Shale and Otherwise).....
.....Moderator, Murrell/GE Global Research
 - a. Injection Project Planning Experience Panel including Jim Doherty,
Riley Exploration (ROZ Depressuring Operator), Ben Azar, Brittany Energy (Hunton
Operator (OK), Bakken Representative (Harju/Sorenson, ERC),
George Koperna, Advanced Resources International
- V. Operational Planning for Follow-on to the Reservoir Depressuring Stage.B McConaty, Yankee Creek
- VI. Land and Legal Issues.....Reagan Rich, Optima Land Services

12:00 Adjourn to Buses for Field Trip (Venue is the East Seminole San Andres Field CO₂ Flood and Facilities and a drive by of the Tall Cotton Greenfield ROZ Project west of Seminole (All one hour north of Midland) – Box Lunches Available – return by 5:30 pm

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- 12:15 Buses Depart Horseshoe Facility for East Seminole San Andres Unit (ESSAU) and CO₂ Facilities
- 1:45 Buses arrive at ESSAU, pick up Tabula Rasa personnel and get safety and orientation briefings on field (on bus)
- 2:15 Move to CO₂ Processing Facility and walking
- 3:00 Comfort Stop and Bus trip to Seminole and drive by of Seminole Plant to the north of Seminole Texas
- 3:40 Arrive at Kinder Morgan’s Tall Cotton Project 6 miles west of Seminole and drive through of the Project Area
- 4:15 Depart for Midland Returning to both Conference Venue and DoubleTree Hotel
- 5:30 Arrive at Horseshoe Facility. Continue on to DoubleTree Hotel for those wanting to return to Hotel

5:30-8:00 Wed Evening Reception at the Permian Basin Petroleum Museum; Sponsors: KinderMorgan CO₂ Company and the PB Section of the SPE (shuttles available from DoubleTree to Museum & return)



Thursday, December 8, 2016

2016 CO₂ Conference Theme Session Agenda at the 22nd Annual CO₂ Conference

(as of Nov 22, 2016)

THURSDAY, DEC 8th

Theme Session #1: "CO₂ Flood & DUROZ Operations & Case Histories" (Thurs, Dec 8th: 8:00 to 11:30 am)

7:30-8:00 "CO₂ Cycle Demonstration Project (Gulf Coast)", Bill Brown CEO of NetPower

8:00-8:45 "Recap of the EOR Carbon Management Workshop;" Mike Moore - Workshop Director

8:45-9:15 "Rangely Field WAG Skids and WAG Management;" Chevron USA

9:15 - 9:45 "The Importance and Sensitivity of Electricity Costs in Today LOE Environment," Ben Cook, Enhanced Oil Recovery Institute

9:45-10:10 Break

10:10-10:45 "Gas Injection in the Cusiana and Cupiagua fields;" C. Quiroz, F. Torres, B. Polo, J. González, L. Sierra, EcoPetrol

10:45-11:30 Panel Discussion All Speakers

11:30-1:30 **Lunch** at the Horseshoe Facility - Keynote Speakers (2):
Craig Pearson, Chief Seismologist and Director, Districts 8&8A, Tx Railroad Commission
"Districts 8 & 8A Activity Update and Induced Seismicity Issues in Ok vs Other Regions"
Tom Williams, President, The Research Partnership to Secure Energy for America,
"The Past Accomplishments and Future of RPSEA"

Theme Session #2: "CO₂ Flood & DUROZ Operations/Case Histories" (Thurs, Dec 8th: 1:30 to 5:15 pm)

1:30-2:10 "SACROC: Extending the Miscible CO₂ Flood Below the Producing Oil Water Contact;" Kimberly Lomeli, Kinder Morgan CO₂

2:10-2:50 "The Northwest Shelf Horizontal San Andres Play;" Russell Hall, RK Hall & Associates

2:50-3:20 "The Anne Tandy CO₂ Flood, King County, Texas;" Jonathan Bradley, Hunt Oil

3:20-3:45 Break

3:45-4:25 "Manzano's Horizontal San Andres Development;" John Worrall, Manzano Energy Partners II

4:25-4:45 "North Sea Residual Oil Zones: An Insight into Play Types and Potential;" Dr. Jamie Stewart, Univ of Edinburgh and Scottish Carbon Capture and Storage Programme

4:45-5:15 Panel Discussion All Speakers

5:15 Conference Week Ends