



**SHARING IDEAS,  
CHANGING THE WORLD**

MIDLAND, TEXAS, DECEMBER 3-6, 2018

[CO2CONFERENCE.NET](http://CO2CONFERENCE.NET)

## SCHEDULE OF EVENTS 2018 CO<sub>2</sub> AND ROZ CONFERENCE WEEK – MIDLAND, TEXAS

All events are held in the Horseshoe Education Room (HE ROOM) except Monday and Wednesday evening's reception.  
Bus travel available from DoubleTree Hotel to Horseshoe Facility 7:15 am Mon, Tues and Thurs, and 7 am Wed.

	SUNDAY DEC 2	MONDAY DEC 3	TUESDAY DEC 4	WEDNESDAY DEC 5	THURSDAY DEC 6
7 am	Horseshoe Education Room (HE Room)	CHECK-IN HE ROOM	CHECK-IN HE ROOM	CHECK-IN HE ROOM	CHECK-IN HE ROOM
8 am		SESSION I Carbon Management Workshop	SEMINAR AM Session: What is 45Q and What is Different Now? Can the Worlds of CCS and CO <sub>2</sub> Merge?	FIELD TRIP Half-day visit and briefing to Kinder Morgan's Tall Cotton Project – a "Greenfield" ROZ CO <sub>2</sub> flood now making 3000 bopd from one section (640 acres), Gaines Co, TX	THEME SESSION II CO <sub>2</sub> Flooding and ROZ Operations and Case Histories
9 am					
10 am					
11 am					
NOON		LUNCHEON (on-site) Keynote Speaker – Charles McConnell, former Assistance Secretary of US DOE for Fossil Energy	LUNCHEON (on-site) Keynote Speaker – Charlene Russell, 45Q and Oxy's Low Carbon Ventures	NO LUNCHEON KEYNOTE <i>Box Lunch Served on Field Trip</i>	LUNCHEON (on-site) Keynote Speaker
1 pm		SESSION II Carbon Management Workshop	PM SESSION Qualifying and Using 45Q, A Look into the Future plus a preview of the field trip	THEME SESSION I San Andres Laterals in the ROZ: Operations and Case Histories	THEME SESSION III CO <sub>2</sub> Flooding and ROZ Operations and Case Histories
2 pm					
3 pm					
4 pm					
5 pm	ICEBREAKER DoubleTree Hotel (Sky Lounge – 3rd Floor)		RECEPTION (HE Room) Sponsors: NCS Multistage and Brown Brothers Energy and Environment, LLC	RECEPTION Permian Basin Petroleum Museum Sponsors: Kinder Morgan CO <sub>2</sub> SPE PB Section	CONFERENCE WEEK ENDS
6 pm		RECEPTION (Commemorative Air Force Hangar) Sponsors: Rockall Energy and NCG Consulting Group			
7 pm					
8 pm					

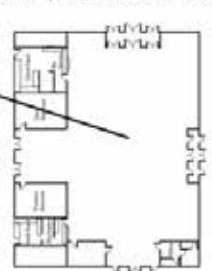
Shuttle vans available from Horseshoe Facility back to DoubleTree Hotel after the day's events (Mon-Thurs).  
Shuttle vans available to/from Horseshoe Facility to Commemorative Air Force Hangar 5:30 pm and 7:30 pm (Monday).



Overall View of Horseshoe Facility



Close-up View of Education Room



## Carbon Management Workshop: Monday, December 3

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?

#### Morning Session: Projects, Programs, Technology Insights

Time	Description	Presenter
7:15 – 8:00	Registration	
8:00 – 8:15	Opening Remarks	Michael Moore EWSA and Steve Melzer, 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, USEA
10:00 – 10:20	Networking Break	
10:20 – 10:50	Southern States Energy Board Updates	Kenneth Nemeth, Executive Director, SSEB
10:50 – 11:20	Latest on CO <sub>2</sub> Capture Deployment	Tim Thomas, Mitsubishi Heavy Industries America, Inc.
11:20 – 11:40	Opportunities with CO <sub>2</sub>	William Swetra, Oxy Low Carbon Ventures
11:40 – 12:00	An Anthropogenic CO <sub>2</sub> EOR Pure Play in a Carbon Opportunity World	Russell Martin, Perdure Energy
12:00 – 1:20	Luncheon and Keynote Speaker	Charles McConnell, Former Assistant Secretary US DOE Fossil Energy

#### Mid-Afternoon Session: Projects, Programs, Technology Insights

1:20 – 1:50	Developing the Next CCUS Project	Jeff Brown, Principal, Brown Brothers Energy and Environment, LLC
1:50 – 2:10	EERC: CO <sub>2</sub> EOR in Shale, ROZ and MPZ developments	John Hamling, UND
2:10 – 2:30	CO <sub>2</sub> Storage Associated with Unconventionals/Shale	Wayne Rowe, Business Manager, NA Decarbonization Projects, Schlumberger
2:30 – 3:00	International and US CCUS Developments	Jeff Erickson, Global CCS Institute
3:00 – 3:15	Networking Break	

#### Afternoon Session: 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	CO <sub>2</sub> EOR and CCUS Story	Dan Cole, V.P., Denbury and the PBS/EERC Bell Creek
5:00 – 5:30	Importance of 45Q and Large-scale CO <sub>2</sub> EOR Storage plus Wrap-Up and Pre-45Q Seminar Panel	Mike Godec, ARI 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 – featuring Historical Planes of WWII and the Midland Army Air Field Museum. ( <a href="https://ghostsquadron.org/rss/471-midland-army-air-field-museum">ghostsquadron.org/rss/471-midland-army-air-field-museum</a> ) Sponsors: Rockall Petroleum, NCG Consulting Group	





## 45Q and CO<sub>2</sub> EOR's Vital Role in Carbon: Tuesday, December 4

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)

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

Time	Description	Presenter
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	Sarah Wade, Wade LLC and Bob Mannes, Core Energy LLC
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 – Keynote Speaker	Charlene Russell, Vice President, Occidental Petroleum Corp

### 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 — Class 6 Wells  Project Financial Assurance Considerations	Alberto Gutierrez, Geolex  Chiara Trabucchi, Industrial Economics, Incorporated
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	IRS Guidance: Ten 45Q Considerations	Keith Tracy, Cornerpost CO <sub>2</sub> LLC
3:10 – 3:50	Not Standing Still: Looking Back at Passage of 45Q Amendments, and Looking Forward to Future Policy Developments	Brad Crabtree, Great Plains Institute 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 – 7:30	Tuesday Evening Reception at Horseshoe Facility with Heavy Hors d'Oeuvres. Reception Doors Close at 7:45 PM.	Sponsors – NCS MultiStage and Brown Brothers Energy and Environment, LLC



## CO<sub>2</sub> Conference Field Trip, Wednesday, December 5

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

Half-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's PM Theme Session

## PM Theme Session 1, Wednesday, December 5

### San Andres Laterals in the ROZ: Operations and Case Histories

12:00 – 1:00 Catered Lunch at the Horseshoe Facility

Time	Description	Presenter
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 with contributions from Robert Trentham and Steve Melzer
2:00 – 2:40	The Evolution of Horizontal Well Completion Techniques	Scott Stedman, Steward Energy
2:40 – 3:10	The Growing Use of "Sliding Sleeves" and Lower Rate Hydrofracture Treatments	Brenton Cheeseman, NCS Multistage
3:10 – 3:30	Networking Break: Exhibit of Sliding Sleeves	
3:30 – 4:10	An Accidental Experiment in Frac Productivity	John Dobitz, Windy Cove
4:10 – 4:45	Panel on Well Completions	Steward, Monadnock, Mammoth
4:45 – 5:15	Merges into a Broader Panel Discussion	All Speakers
5:30 – 7:30	Evening Reception at Permian Basin Petroleum Museum Sponsors – Kinder Morgan CO <sub>2</sub> Company and the PB Section of the SPE	



## AM Theme Session 2, Thursday, December 6

### CO<sub>2</sub> Flooding and ROZ Operations and Case Histories

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 and 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
9:50 – 10:10	Networking Break	
10:10 – 10:45	CO <sub>2</sub> Processing Rates: Too Fast/Slow?	Scott Wehner, Wehner CO <sub>2</sub> nsulting LLC
10:45 – 11:30	Speaker Panel Discussion	All Morning Presenters
11:30 – 1:00	Lunch at the Horseshoe Facility – Education Room	Keynote Speaker TBA

## PM Theme Session 3, Thursday, December 6

### CO<sub>2</sub> Flooding and ROZ Operations and Case Histories

1:00 – 1:40	Horizontal Producers and 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	Grant Caldwell, Fleur de Lis Energy
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	Networking Break	
3:20 – 4:00	Lab Comparisons: Methane, Ethane, Propane, CO <sub>2</sub> and Produced Gas for Hydrocarbon Mobilization	Steve Hawthorne, Energy & Environment Research Center, ND
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	Conference Week Ends	



# THANK YOU, SPONSORS

## OVERALL CONFERENCE WEEK SPONSORS



Occidental Petroleum



Russell K. Hall and Associates, Inc.  
Petroleum Evaluation Engineers



Wehner CO<sub>2</sub>nsulting, LLC



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