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For information go to:

www.midland.edu/ppdc

Register online at
www.midland.edu/ppdc or
Call: 432-683-2832

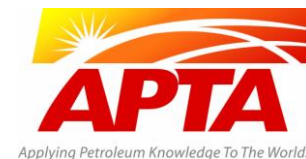
Location:
Midland College PPDC
105 W. Illinois
Midland, Texas 79701

Fee:
In-State, \$1,895
Out-of-State, \$1,920
Course #'s:
In-State, G197 094Q
Out-of-State, Pending
3.2 CEU's and 32 PDH's



Midland College is an equal opportunity
Employer/Educator.

Midland College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award certificates and associate and baccalaureate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Midland College.



Midland's CO₂ School

From the World Leaders in CO₂
Enhanced Oil Recovery

*Jointly Sponsored by APTA and
Midland College's PPDC*

Anyone involved in CO₂ Oil Recovery
Operations or implementation should
plan to attend this course!

*The course is open to International
attendees and space is limited to the first
40 registrations.*

August 23-26, 2010
8:00 am - 5:00 pm
Monday-Thursday

Instructors: L. Stephen Melzer, Melzer Consulting; Robert Trentham, Ph.D., UTPB/CEED; Robert “Bob” D. Kiker, PTTC; W. Hoxie Smith, Midland College PPDC

CO₂ SCHOOL

Course Schedule and Curriculum

Day One: Overview of the Elements of CO₂ Flooding

- The History and Current Status of CO₂ Flooding
- CO₂ Sources, Natural and Anthropogenic (Man-Made), and the Properties of CO₂
- The Convergence of Carbon Management and CO₂ EOR
- CO₂ Transportation and Injection - Pipelines, Trucking, Metering
- Reservoir Response - Miscible, Immiscible, Gravity Stable, Processing Rates, Examples
- CO₂ Recycling, Plants & Processing - Dehydration, Sulfur/NGL Separation, Compression
- Downhole and Wellsite Equipment Needs
- Key Elements of Reservoir Geology
- Overview: The Business of CO₂

Day Two: Evaluating a Candidate Flood, Reservoir Response and Flood Operations

- Flood Prospects: The Initial Evaluation and the Concept of Screening
- Flow Units and Reservoir Compartmentalization
- Modeling the Reservoir and Waterflood Response – Sweep Efficiency Concepts and Rules of Thumb
- Geophysical Techniques
- Normalizing Flood Response – Actual Examples
- CO₂ Flood Response Modeling Techniques
- Economic Modeling
- Key Features of CO₂ Flood Operations
 - Downhole Considerations
 - Operational Features Peculiar to CO₂ - Beyond Waterflooding
 - Surveillance and Flood Monitoring

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Day Three: CO₂ Facilities and Field Trip

- Dehydration Processes
- Compression Facilities
- Sulfur Removal
- Natural Gas Liquids Removal
- Integrated Plants
- Full Stream (Gas) Re-injection
- Field Visit to a CO₂ Flood and Facility
 - Tour of CO₂ Production and Injection Facilities
 - Tour of Recycle/Processing Facilities

Day Four: CO₂ Production and the Business of CO₂ Flooding

- Land/Mineral Considerations
- Longevity of Example Floods
- Reservoir Processing Rates and Rates of Return
- Major Elements of Costs/Revenue
- Parametric Sensitivities
- Fundamentals of CO₂ Supply Contracts
- Course Discussion and Evaluation