

Agenda for 2014 Meeting of MSRL
March 3-7, 2014
Austin, Texas

Pre-Meeting activities

Held at Bureau of Economic Geology, Austin Texas

Monday, March 3; 8:30 AM X-ray Fluorescence Chemostratigraphy of Mudrocks – a short course. Instructors: *Harry Rowe, Bruce Kaiser*

Tuesday, March 4.

1. 8:00 AM – 5:00 PM; Mudrock Systems Short Course: Mudrock origins, distribution, and reservoir characterization: *Instructors, Steve Ruppel, Greg Frebourg, Bob Loucks, Harry Rowe*
2. 9:00 AM – 4:00 PM; Mudrock Petrography Users Group Workshop (attendance limited). *Leader: Kitty Milliken*

Wednesday, March 5, 9:00 AM – 4:30 PM.

Core Workshop: (*Eagle Ford, Marcellus, Niobrara, Atoka, Wolfcamp, etc.*)

Main Meeting: Thursday, March 6 – Friday March 7

Commons L'il Texas Room, Pickle Research Campus, Austin, Texas

Thursday, March 6

Upper Cretaceous Eagle Ford and equivalent successions

8:00 AM	Welcome
8:30 AM	Facies, chemostratigraphy, and pore systems of the Niobrara shale: <i>Bob Loucks</i>
9:00 AM	Tuscaloosa marine shale: organic matter pore and oil generation: <i>Jiemin Lu</i>
9:30 AM	Defining facies continuity and correlatability in the Eagle Ford Fm: <i>Steve Ruppel</i>
10:00 AM	Break
10:15 AM	Sedimentary processes and facies; Eagle Ford Fm: <i>Greg Frebourg</i>
10:45 AM	U-Pb geochronology of the Eagle Ford Fm and equivalents: <i>J. D. Pierce</i>

Pore Characterization and Evolution in Mudrocks

11:15 AM	Sapropels: analogs for early diagenesis of mudrocks: <i>Kitty Milliken</i>
11:45 AM	LUNCH (posters available for viewing)
1:00 PM	Characterizing Eagle Ford pore evolution with N ² sorption analysis: <i>Tongwei Zhang</i>
1:30 PM	Integrated FIB-SEM and CT scanning for improved pore network characterization: <i>Sheng Peng</i>
2:00 PM	Application of HIM analysis in shale characterization: <i>JJ Yang (Zeiss)</i>
2:30 PM	Distinguishing Organic Matter Pores Associated with In-Place vs Migrated Organic Matter: <i>Bob Loucks</i>
3:00 PM	Break
3:15 PM	Pore evolution during thermal maturation: Eagle Ford formation: <i>Tongwei Zhang</i>
3:45 PM	Pore evolution in the Eagle Ford and Barnett shales during anhydrous gold-tube pyrolysis: <i>Lucy Ko</i>
4:15 PM	Open Discussion
4:45 PM	Introduction to Poster Session

5:15 PM- ?? **Poster Session Viewing and Refreshments**

Friday, March 7

Pore Characterization and Evolution in Mudrocks

8:00 AM Low Thermal Maturity Pore Systems: Barnett Shale, Southern Fort Worth Basin: *Rob Reed, Bob Loucks*

Stratigraphy and Chemostratigraphy

8:30 AM Facies and stratigraphy of the Pennsylvanian (Atoka) 13 fingers Fm; Permian Basin: *Greg Frebourg*

9:00 AM High-Resolution Elemental Signatures in Mudrocks Using Handheld ED-XRF: *Harry Rowe*

9:30 AM Wolfcamp-Leonard Facies, cyclicity, and chemostratigraphy, Midland Basin: *Robert Baumgardner*

10:00 PM **BREAK**

Petrophysics and Flow Modeling

10:15 AM Shale Petrophysics: MICP Analysis: *Ray Eastwood*

10:45 PM Developments in NMR Laboratory Applications for Mudrocks: *Hugh Daigle*

11:15 PM Model to Relate Pore Size Distribution to Apparent Permeability: *Morteza Elahi Naraghi and Farzam Javadpour*

11:45 PM **LUNCH (posters available for viewing)**

1:00 PM Liquid Flow in Liquid Rich Shale Plays: *Farzam Javadpour*

1:30 PM Open Discussion and Future Research Directions

2:00 PM Close

Poster Presentations (partial list)

- Patterns of hydrocarbon saturation, organic matter types, and oil composition in the Eagle Ford Fm: *Xun Sun*
- Variability in Organic-Matter Pore Development over Depth: A Case Study from the Devonian-Mississippian Woodford Formation, Delaware Basin: *Rob Reed*
- Chemostratigraphy of the Haynesville/Bossier succession, Texas: *Lauren Woolston*
- SEM images of pore evolution in the Eagle Ford and Barnett shales during anhydrous gold-tube pyrolysis: *Lucy Ko*
- Chemostratigraphy of the Eagle Ford Fm in the Getty Hurt core, LaSalle County, Texas: *Zain Abdi*
- Analysis of facies continuity from Lidar imaging: Boquillas Fm, West Texas: *Greg Frebourg*
- CH₄ Adsorption on Oil-Bearing Shales: Implication for Oil and Gas Storage in Organic-rich Mudrocks: *Sheng Peng*
- Initial Chemostratigraphic, Isotopic, and Petrographic Findings on the Duvernay Formation, Western Canadian Sedimentary Basin: *Michael Nieto*
- Chemostratigraphy of the Cline Shale, Midland Basin, Texas: *Reed Roush*
- Lithofacies and Reservoir Characterization of Barnett Shale in Southeast Fort Worth Basin, Central Texas: *Xufeng Liu*
- Scales of Cyclicity in Mudrocks, Lower Bone Spring Formation, Delaware Basin, Texas: *Seay Nance and Harry Rowe*