

**Agenda for Annual Meeting of MSRL  
April 13-17, 2015,  
Austin, Texas**

**Pre-Meeting activities: Held at Bureau of Economic Geology**

Monday, April 13: 1:00 PM-5:00 PM

Short Course: Aviso Fire software for petrophysical visualization: *Instructor:*  
*Dan Gostovic, FEI Company*

Tuesday, April 14: 8:00 AM -5:00 PM

Short Course: Introduction to Mudrock Systems: origin, distribution, and  
reservoir characterization: *Instructors, Greg Frebourg, Steve Ruppel, Bob Loucks*

**Main Meeting: Held at Commons L'il Texas Room, Pickle Research Campus**

Wednesday, April 15

**Oral Presentations**

8:00 - 8:15AM Introduction: *Ruppel et al*  
8:15 - 8:30AM Introduction to the new MSRL data delivery system: *Breton*

**Mini-Session 1: Integrated study of a lacustrine mudrock system: Triassic, China**

8:30 - 8:40AM Project overview and Introduction: *Zhang*  
8:40 - 9:05AM Chemostratigraphy of a Fluvio-Lacustrine Succession: *Rowe*  
9:05 - 9:30AM SEM petrography, mineralogy and diagenesis: *Milliken*  
9:30 - 9:55AM Quantification of pore types: *Loucks*  
9:55 - 10:10AM **BREAK**  
10:10 - 10:35AM Organic matter type, thermal maturity, petroleum expulsion: *Zhang*

**Mini-Session 2: Integrated study of a marine mudrock system: Cretaceous Eagle Ford Fm, Texas**

10:35 - 11:00AM Chronostratigraphy, chemostratigraphy and facies: *Ruppel*  
11:00 - 11:25AM Eagle Ford Pore systems: *Loucks*  
11:25 - 11:50AM Quantification of Eagle Ford pore networks: *Ko*  
11:50 - 1:00PM **LUNCH**  
1:00 - 1:25PM Integrated study of pore size distribution, gas chemistry, and pore connectivity: *Zhang*  
1:25 - 1:50PM Measurement of matrix permeability and porosity: *Bhandari*  
1:50 - 2:15PM Measuring modified GRI mudrock permeability under confining stress: *Peng*  
2:15 - 2:40PM Using NMR and MICP to Describe Pore Networks: *Shultz*  
2:40 - 2:55PM **BREAK**  
2:55 - 3:20PM Stochastic modelling of gas flow and sorption: *Javadpour*  
3:20 - 3:45PM Petrophysical log modeling: *Eastwood*

3:45 - 5:15 PM **Introduction to poster session**

5:15 - 7:00 PM(?) **Evening Poster Session**  
*Hors d'oeuvres and drinks provided*

**Poster Presentations**

1. New device for fluid recovery from wax-sealed cores: defining reservoir saturations: *Enriquez*
2. Molecular dynamics study of liquid alkanes in shale: *Wang*
3. A new Mudrock classification: *Milliken*
4. Occurrence of Organic-Matter Pores in Sub-1.0% Vitrinite Reflectance Mudrocks: *Reed*
5. Chemostratigraphy of Two Bakken Cores from the Southern Williston Basin: *Abdi*
6. Regional chemostratigraphy of the Bakken Fm in the Williston Basin: *Berney*

7. Chemostratigraphy of the Barnett Fm in the SW Ft. Worth Basin: *Redmond*
8. Chemostratigraphy of the Cherokee Fm in the Anadarko Basin: *Hu*
9. Stratigraphy, paleoenvironments, and well-log response: Wolfcamp mudrocks, Delaware Basin: *Nance*
10. Integrated geochemistry, UCS, and SEM, data: Wolfcamp and lower Leonard, Midland Basin: *Baumgardner*
11. Plant flora of the Wolfcamp and lower Leonard, Midland Basin: *Baumgardner*
12. High Resolution Chemostratigraphic Record of Cenomanian-Turonian Strata, USA: *Nieto*
13. Small scale geochemical variations in the Boquillas Formation: *Garza*
14. Biomarker implications for organic matter input and productivity in marine and lacustrine mudrocks: *Sun Xun*
15. Rafted wood in the Bouldin Member of the Eagle Ford Formation, Travis Co.: *Mauck*
16. Eagle Ford Pore Systems Identified Through NMR Analysis: *Shultz*
17. Liquid hydrocarbon characterization for Eagle Ford cores: *Sun Xun*
18. Langmuir slip permeability model coupled with Langmuir sorption: *Singh*
19. A Composite Record of early Late Cretaceous deposition in the Austin area, TX: *Gabb*
20. Core-based chemostratigraphy of the Buda Formation, Dimmitt County, Texas: *Hendrix*
21. Pore scale fluid flow in shale: *Afsharpoor*

Thursday, April 16

### Oral Presentations

#### Stratigraphy, Sedimentology, Chemostratigraphy and Paleo-oceanography

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|-----------------|--|
| 8:00 - 8:25AM   | Geochemical Constraints on the Evolution of the Bakken Fm: <i>Rowe</i>                   |
| 8:25 - 8:50AM   | The Pennsylvanian 13 Fingers and Novi Lime, Anadarko Basin: <i>Frebourg</i>              |
| 8:50 - 9:15AM   | Core calibrated regional facies distribution : Cline shale: <i>Roush</i>                 |
| 9:15 - 9:55AM   | High-Resolution Chemostratigraphic Facies Analysis of the Eagle Ford Fm: <i>Rowe</i>     |
| 9:55 - 10:10AM  | <b>BREAK</b>   |
| 10:10 - 10:35AM | Integrated outcrop sedimentology of the Eagle Ford/Boquillas formations: <i>Frebourg</i> |

#### Pore Characterization and Evolution in Mudrocks

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|-----------------|--|
| 10:35 - 11:00AM | Pore Systems of the Cline Shale, Permian Basin, West Texas: <i>Reed</i>                |
| 11:00 - 11:25AM | Factors Influencing the Development of Organic-Matter Pores in Mudrocks: <i>Reed</i>   |
| 11:25 - 11:50PM | Eagle Ford pore quantification: <i>Milliken</i>  |
| 11:50 - 1:00PM  | <b>LUNCH</b>   |
| 1:00 - 1:15PM   | Ar-adsorption analysis of pore size and connectivity of shales: <i>Daigle</i>          |
| 1:15 - 1:30PM   | Experimental pore evolution studies on the Woodford, Barnett and Eagle Ford: <i>Ko</i> |
| 1:30 - 1:55PM   | Maturation and lithology controls on hydrocarbon chemistry and expulsion: <i>Zhang</i> |

#### Petrophysics and Flow Modeling

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|---------------|---|
| 1:55 - 2:20PM | Mudrock Permeability: what are we measuring?: <i>Peng</i>                               |
| 2:20 - 2:45PM | Are gas shales suitable analogs for oil shale exploration?: <i>Brown</i>                |
| 2:45 - 3:00PM | <b>BREAK</b>  |
| 3:00 - 3:25PM | Geochemical interaction of shale and fracking fluid in autoclave experiments: <i>Lu</i> |
| 3:25 - 3:50PM | Pore scale fluid flow in shale: <i>Afsharpoor</i>                                       |
| 3:50 - 4:15PM | Apparent liquid permeability in shale: <i>Javadpour</i>                                 |
| 4:15 - 5:00PM | Group Discussion of Present and Future Research Focus: <i>All</i>                       |

### Core Workshop: held at Bureau of Economic Geology, Core Research Center

Friday, April 17: 9:00 AM – 3:45 PM

Core Workshop: *Cores to be presented: Bakken, Barnett, Cline, Cherokee, Wolfcamp, Glen Rose, Eagle Ford(2)*