

Review Meeting
Mudrock Systems Research Laboratory
Bureau of Economic Geology
MARCH 5-9, 2012

AGENDA

March 5 Monday

10:00 AM – 4:30 PM: MSRL Petrology/Petrography Interest Group Meeting

NOTE: This meeting will be held at the Bureau of Economic Geology Main Building on March 5, the day BEFORE the MSRL main meeting. Attendance is limited. If you are interested, contact Kitty Milliken (kittym@mail.utexas.edu).

March 6 Tuesday

NOTE: Tuesday and Wednesday meeting presentations will be held in the The L'il Texas Room at the Commons Building on the Pickle Research Campus, 10100 Burnett Road

8:00 AM – 5:00 PM: PowerPoint presentations

8:00 – 8:20 AM Welcome: *Tinker*

8:20 – 8:40 AM Status of MSRL Research Activities – Present and Future: *Ruppel*

Paleozoic Mudrock Systems

8:40 – 9:10 AM Natural fractures in the Marcellus Shale; *Gale*

9:10 – 9:40 AM Devonian mudrock pore systems: Bakken, Woodford, New Albany; *Reed*

9:40 – 10:10 AM Geochemistry and sedimentology of Bone Spring mudrocks; *Nance*

10:10 – 10:25 AM **BREAK**

10:25 – 10:55 AM Permian Mudrocks of the German Basin; *Hammes*

Mesozoic Mudrock Systems: Facies Architecture and Depositional Systems

10:55 – 11:25 AM Haynesville-Bossier facies and architecture; *Frebourg*

11:25 – 11:55 AM Chemostratigraphy and Paleooceanography of the Haynesville-Bossier; *Rowe*

11:55 – 1:00 PM **LUNCH**

1:00 – 1:30 PM Regional patterns of facies architecture in the Eagle Ford System; *Ruppel*

1:30 – 2:00 PM Small-scale facies variability in the Eagle Ford System; *Fairbanks*

2:00 – 2:30 PM Evidence of controls on Eagle Ford rock properties from 3D seismic data; *Zeng*

2:30 – 3:00 PM Preliminary characterization of the Tuscaloosa shale; *Lu*

3:00 – 3:15 PM **BREAK**

Petrography and Diagenesis

3:15 – 3:45 PM Petrology and early diagenesis of the Pearsall; *Milliken*

3:45 – 4:15 PM Quantitative microstructure and x-ray mapping of mudstones; *Hayman*

4:15 – 5:15 PM Introductions to Core and Poster Presentations

5:15 PM – ??: Icebreaker & Poster and Core presentations

- Introduction to field trip: Del Rio, Buda Boquillas, and Austin units; *Ruppel, Loucks, Frebourg*
- Eagle Ford (Boquillas) bedform architecture and depositional mechanisms; *Frebourg*

- Small-scale facies variability in the Eagle Ford (core poster); *Fairbanks*
- Bone Spring depositional systems (core poster); *Nance*
- Syn-depositional coarsening: implications for reservoir quality; *Milliken*
- Faunal markers for organic matter preservation; *Milliken*
- Mudrock organic geochemistry; *Jarvie*
- Elemental chemistry and chemostratigraphy of the Bakken
- Chemostratigraphy of the Eagle Ford: *Nikirk*
- Chemostratigraphy and geochemistry of the Barnett, Ft. Worth Basin: *Payne*
- Chemostratigraphy of the Barnett, Ft. Worth Basin: *Robinson*
- Chemostratigraphy of the Wolfcamp Series, Midland Basin: *McCreight*

March 7 Wednesday

8:00 AM – 12:00 PM: PowerPoint presentations

8:30 – 9:00 AM Wireline modeling of mudrock petrophysical properties; *Eastwood*
 9:00 – 9:30 AM Pore characterization and gas adsorption in organic-rich shales; *Zhang*
 9:30 – 10:00 AM Gas production analysis of the Barnett Shale: *Browning*
 10:00 – 10:15 AM **BREAK**
 10:15 – 10:45 AM Wettability and geomechanical attributes of mudrocks; *Wang*
 10:45 – 11:15 AM Modeling of flow characteristics in mudrock systems; *Javadpour*
 11:15 – 12:00 PM Discussion of future research directions: *All*
 12:00 - 1:00 PM **LUNCH**

1:15PM Board Buses; Leave for Del Rio

FIELD TRIP: DEL RIO, TEXAS

March 8 Thursday

8:00 AM – 6:00 PM: Examine Upper Cretaceous Del Rio, Buda, and Boquillas Fms west of Del Rio

March 9 Friday

8:00 AM – 12:00 PM: Examine Upper Cretaceous and Boquillas and Austin rocks west of Del Rio

12:00 PM – 6:00 PM: Return to Austin