

Start-Up Meeting
Mudrock Systems Research Laboratory
Bureau of Economic Geology
Austin, TX
JANUARY 12 -13, 2010

AGENDA

Day 1. January 12 Tuesday.

PowerPoint Presentations: Room, ROC 1.603.

8:00 AM Introduction to Bureau Mudrocks Research: *Tinker*

8:15 AM Models and concepts of shale basin development: *Ruppel*

8:40 AM Controlling parameters of gas shale development: *Wang*

9:05 AM Defining gas shale exploration potential: *Alton Brown*

9:30 AM Imaging Mudrock Pore Systems: *Reed*

9:55 AM **BREAK**

10:10 AM Microscale imaging and controls on mudrock composition: towards an understanding of mudrock compaction and classification: *Milliken*

10:35 AM Barnett: facies, models, and pore system: *Loucks, Reed*

11:00 AM Mudrock elemental chemistry; Paleozoic and Mesozoic systems: *Hughes, Rowe*

11:25 AM Characterization of natural fractures in the New Albany Shale: *Gale*

11:50 AM **LUNCH**

12:50 PM Preliminary data on the Pearsall (Lower Cretaceous) system: *Loucks, Hull*

1:15 PM Pennsylvanian Smithwick shale, Ft. Worth Basin: *Scott Hamlin*

1:40 PM Eagle Ford (Cretaceous) sedimentology, stratigraphy, and geochemistry: *Ruppel, Nance, Harbour*

2:05 PM Sedimentology and geochemistry of the Jurassic Haynesville/Bossier system: *Ursula Hammes*.

2:30 PM Wilcox mudrocks: textural controls on composition and depth-related chemical trends: *Day-Stirrat & Milliken*

2:55 PM **BREAK**

- 3:10 PM Characterization of a Tuscaloosa mudrock seal: *Lu and Milliken*
- 3:10 PM Mudrock deformation in early burial: Nankai accretionary prism: *Milliken & Reed*
- 3:35 PM Mudrock geochemistry and gas resource characterization: *Tongwei Zhang*.
- 4:00 PM Mudrock permeability and flow modeling: *Javadpour*
- 4:25 PM Project website, atlas project, and data transfer options: *Milliken, Breton, Ruppel*
- 4:35 PM Discussion of Future Directions of MSRL Research

Day 2. January 13 Wednesday

8:00 – 12:00 Core and Poster Presentations: BEG Core Repository.

Pearsall, Gulf Coast Basin: *Loucks, Hull*

Eagle Ford, Gulf Coast Basin: *Ruppel, Nance, Harbour, Hentz*

Haynesville, Gulf Coast Basin: *Hammes*

Bone Spring, Permian Basin: *Nance*

Smithwick, Ft. Worth Basin: *Hamlin, Hughes*

Barnett, Ft. Worth Basin: *Loucks*

12:00 – 1:00 LUNCH: Buffet in core warehouse

1:00– 4:30 Short Course: Room ROC 1.603

Basic Mudrock Petrology for Gas Shale Characterization: *Milliken*

Outline

Petrographic techniques: the special case of mudrocks

Detrital Grain Assemblages

Diagenesis

Compaction

Cements

Grain alteration