

Meeting Program

Comparative Sedimentology Laboratory

2006 Annual Review Meeting

Monday, October 9th

Morning

08:30 Coffee

09:00 Welcome and Introduction, Gregor Eberli

Carbonate Systems and Reservoir Characterization

09:15 Sand is Sand, Physics is Physics: Comparative Morphology of Oolitic Tidal Deltas

Stacy Lynn Reeder and Eugene C. Rankey

09:30 Along-Strike Variability in Sedimentology and Geomorphology of a Leeward Margin, Caicos Platform

Eugene C. Rankey, Sean Guidry, Stacy Lynn Reeder and Humberto Guarin

09:45 Modern Processes and Petrophysical Heterogeneity of Pleistocene Ooid Shoals around Ocean Cay, Bahamas: Lessons for Ancient Reservoirs

F. Eduardo Cruz, Gregor P. Eberli, Eugene C. Rankey and Alan P. Byrnes

10:00 Additional Samples from Great Bahama Bank

Robert Otto, Peter K. Swart, Phil Kramer

10:15 Coffee Break

10:45 The Nature of Growth and Morphology of Experimental Tidal Channel Systems

Brigitte Vlaswinkel and Eugene C. Rankey

11:00 Use of Quantitative Data from Modern Grainstone and Reef Analogs as Input to Reservoir Simulation Models

Eugene C. Rankey, Brigitte Vlaswinkel, Mitch Harris, Marge Levy

11:15 Are Tsunamis Always Sedimentologically Important Events?

Kelly L. Jackson, Eugene C. Rankey, Gregor P. Eberli, Falk Amelung, Miriam S. Andres, Larry C. Peterson, and Peter K. Swart

11:30 Reservoir Potential of Re-Deposited Deep-Water Carbonates

Gregor P. Eberli, Daniel Bernoulli, and F. Eduardo Cruz

12:00 Lunch

Deep-Water Coral Mounds

- 13:30 Multibeam Characterization of Deep-Water Reef Mounds, Eastern Straits of Florida
Donald F. McNeill
- 13:45 AUV-Based Environmental Characterization of Deep-Water Coral Mounds in the Straits of Florida
Mark Grasmueck, Gregor P. Eberli, David Viggiano, Thiago Correa, Glenda Rothwell
- 14:00 Size, Shape and Orientation of Deep-Water Corals in the Straits of Florida
Thiago Correa, Gregor P. Eberli, Mark Grasmueck, and David Viggiano
- 14:15 Deep-Water Coral Mound Genesis and Growth: Challenger Transect, Porcupine Basin
Miriam Andres, Tracy Frank, Peter K. Swart, Gregor P. Eberli and IODP# Exp. 307 Shipboard Scientific Party
- 14:30 Geological Perspective and Reservoir Potential of Deep-Water Coral Mounds
Gregor P. Eberli
- 14:45 Coffee Break

Geochemistry and Diagenesis of Carbonates

- 15:15 Limits on the Changes in the Geochemistry of Carbonate Sediments in the Marine Diagenetic Realm
Peter K. Swart
- 15:30 Investigating the Origin of Neogene Dolomites Using Non-Conventional Trace Elements
Kathleen Willis and Peter K. Swart
- 16:00 Variations in the $\delta^{13}\text{C}$, $\delta^{18}\text{O}$, and Mineralogy of Surface Sediments on Great Bahama Bank: Implications for Reading the Fossil Record
Peter K. Swart, Robert Otto and John J.G. Reijmer
- 16:15 Diagenetic Origins of Dolomitized Reservoirs and Limestone Tombstones in the Madison Limestone, Northern U.S. Rocky Mountains
David A. Katz, Peter K. Swart, Gregor P. Eberli and Langhorne B. Smith
- 16:30 Reception 17:00-18:30 in Commons

08:30 Coffee

Geophysics

09:00 Time-Lapse GPR Imaging of Flow and Retention Inside the Miami Oolite
Mark Grasmueck and David Viggiano

09:15 Local to Regional-Scale Variations in the Sedimentary Architecture of the Miami Oolite
Adrian Neal, Mark Grasmueck, Donald F. McNeill, David Viggiano, Gregor P. Eberli

Petrophysics of Carbonates

09:30 Sedimentologic and Petrophysical Properties of a Pennsylvanian Ooid Shoal, Kansas
Eugene C. Rankey, Alan P. Byrnes, Lynn Watney, Stacy Lynn Reeder

09:45 Testing Theoretical Rock Physic Models for Pore Types Characterization
Gregor Baechle, Arnout Colpaert, Ralf Weger and Gregor Eberli

10:00 Coffee Break

10:30 Fluid Substitution and Elastic Properties in Multi-Mineral Carbonate Samples
Arnout Colpaert, Gregor Baechle, Ralf J. Weger, Ivar Brevik, Juergen Mienert and Gregor P. Eberli

10:45 Towards Permeability from Seismic Data
Gregor P. Eberli, Jose Luis Massafarro, Ralf J. Weger, and Gregor Baechle

11:00 Reconciling Extended Biot Theory using Laboratory Measurements and Pore Space Geometry in Carbonates
Ralf J. Weger, Yueng Fen Sun, Jose Luis Massafarro, Gregor P. Eberli, and Gregor Baechle

11:15 Coffee Break

Future Plans

11:30 Future Projects & Discussion

12:30 Dismissal & Lunch

14:00 Fieldtrip Introduction