



Newsletter

Welcome to Miami

Dear colleagues,

We welcome you to our 2005 CSL Annual Review meeting in Miami. We will present our most significant results in short 10 minute

presentations. Below is the schedule of the talks and some early announcements of fieldtrips to the Bahamas next year.

Annual Review Meeting - Logistics

The meeting will begin at 8:30 AM on Monday, October 3rd in the seminar room at the University of Miami's Rosenstiel School of Marine & Atmospheric Science (RSMAS), 4600 Rickenbacker Causeway. The seminar room is in the Science/Administration Bldg., Rm. 103. We will provide transportation to the school; please meet in the lobby of the Sheraton Hotel at 8:00 AM.

Following the meeting you are invited to join us at a reception on campus overlooking Biscayne Bay. Our local CSL experts are willing to guide several dining groups afterwards.

On Tuesday, the meeting starts again at 8:30 AM and we will have a 8:00 AM pickup at the

Sheraton again. The meeting will be finished by noon.

Fieldtrip participants, please be reminded that you will need only the following items: swim suit or two, snorkeling equipment, canvas shoes for wading, hat with brim, sunscreen (>30), long trousers and long-sleeved shirt for field use as protection against the sun and insects, sun glasses (polarized) and light rain jacket or poncho. For supper, you need only shorts, slacks and short-sleeved shirts. All these items can be carried in a zippered duffel or flight bag. You may also want to put your daily stuff, like camera, Tylenol, (for sun-induced headaches) and medicine for motion sickness in a waterproof bag to protect it on the boat.

Early field trip announcements for 2006

Gregor Eberli, Mitch Harris & Mike Grammer will lead an AAPG field trip "Sequence Stratigraphy and Reservoir Distribution in a Modern Carbonate Platform, Bahamas" in June 2006, 6/12/06 – 6/17/06.

The CSL is planning another field trip, "Heterogeneity of Bank-Margin Ooid Sands: Depositional Models and Reservoir Analogs, Exuma, Bahamas" in June 2006, 6/18/06 – 6/22/06.

Comparative Sedimentology Laboratory

RSMAS / MGG
University of Miami
4600 Rickenbacker Cswy
Miami, FL 33149

PHONE:
(305) 421-4678

FAX:
(305) 421-4632

E-MAIL:
geberli@rsmas.miami.edu
or
dmcneill@, pswart@,
mgrasmueck@,
grankey@

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www.cslnmiami.info

Meeting Program

Comparative Sedimentology Laboratory

2005 Annual Review Meeting

Monday, October 3rd

Morning

08:30 Coffee

08:45 Welcome and Introduction, Gregor Eberli

Carbonate Systems and Reservoir Characterization

9:00 Stuck on Spin Cycle: Interactions between Tidal Flows and Ooid Shoals, Bahamas

Stacy Reeder and Gene Rankey

9:15 Close Linkages Between Geomorphology and Granulometry in an Oolitic Marine Sand Belt, Lily Bank, Bahamas

Gene Rankey, Bernhard Riegl and Kelley Steffen

9:30 Patterns and Processes in Ooid Shoals around Ocean Cay, Bahamas: using the Modern to predict the Pleistocene

F. Eduardo Cruz, Gregor Eberli, Gene Rankey and Alan Byrnes.

9:45 Permeability, capilarity, and electrical properties of Ocean Cay Oolitic Limestone

Alan Byrnes

10:00 Preliminary results of a physical modeling approach to quantifying four-dimensional tidal creek network morphometrics

Brigitte Vlaswinkel, Chris Ellis and Gene Rankey

10:15 The Lack of Muddy Tidal Caps on Grainstone Shoals in Modern Carbonate Environments

Gregor P. Eberli

10:30 Coffee break

Geochemistry and Diagenesis of Carbonates

11:00 A re-examination of facies from the Great Bahama Bank

Robert Otto and Peter K. Swart

11:15 The Use of Geochemical Indices in the Study of Stratigraphy and Diagenesis in Carbonates: Problems, Promises, and Potential

Peter Swart

11:30 Tracing paleosalinity of dolomitizing fluid incursions within the Unda and Clino cores of the Great Bahama Bank.

Kathleen Willis

11:45 Distribution and Geochemical Signature of Dolomites from the Madison Limestone, Montana and Wyoming

David Katz, Peter Swart, Gregor Eberli and Langhorne Smith

12:00 Lunch

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Monday, October 3rd

Afternoon

Geochemistry and Diagenesis of Carbonates

- 13:30 The Validity of Sequence Stratigraphy in Mechanical Stratigraphy and Fracture Prediction
Layaan Al Kharusi, Gregor Eberli and Gregor Baechle
- 13:45 Corals gone deep: Mound drilling in the Porcupine Seabight – Integrated Ocean Drilling Program Expedition 307
Miriam S. Andres & the IODP Exp. 307 Shipboard Scientific Party
- 14:00 Lowstand Ooid Sand: An Example from the Late Pleistocene Florida Shelf
Donald McNeill and Peter Swart
- 14:15 Input or Diagenesis; Organic Stable Isotopes Offer Additional Insight Into Nature of Periplatform Sediments; Leg 166, Site 1006 Bahamas Drilling Project
Kathryn Lamb
- 14:30 Paleooceanographic and paleogeographic implications of integrated carbon isotopic and sequence stratigraphy of the Mississippian Madison Limestone, Montana and Wyoming
David A. Katz, Matthew R. Buoniconti, Isabel P. Montañez, Peter K. Swart, Gregor P. Eberli and Langhorne (Taury) B. Smith
- 14:45 Coffee break
- 15:15 Stromatolite morphologies – more than just the shape
Miriam S. Andres & R. Pamela Reid
- 15:30 Sizes, shapes and distribution of patch reefs, northern Florida Keys
Gene Rankey, John Brock (USGS) and Wayne Wright (NASA)
- 15:45 ‘A Tale of Two Storms’ – Impacts of Hurricanes Frances and Jeanne on Carbonate Systems, Abacos, Bahamas
Stacy Reeder and Gene Rankey
- 16:00 Tsunami Sediments in Coastal Lagoons, Sri Lanka: Implications for Paleotsunamis
Kelly L. Jackson, Falk Amelung, Miriam S. Andres, Gregor Eberli, H.A.H. Jayasena, K.V. Wilbert Kehelpannala, Larry Peterson and Eugene C. Rankey
- 16:30 Reception 5-6:30 in commons

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Tuesday, October 4th

Morning

Petrophysics & Geophysics of Carbonates

- 08:45 3D/4D GPR Toolbox for inside-out Understanding of Reservoir Analogues
David A. Viggiano and Mark Grasmueck
- 09:00 Karst and early fracture networks in carbonates, Turks and Caicos Islands, British West Indies
Sean A. Guidry, Mark Grasmueck, Andrew M. Gombos, Jr., Daniel G. Carpenter, Steven L. Bachtel and David A. Viggiano
- 09:15 Effect of Spherical Pores on Stiffness and Sonic Velocity in Oomoldic Rocks: Why Castagna's Simplification is Misleading
Gregor Baechle, Layaan Al-Kharusi, Gregor Eberli and Alan Byrnes (KGS)
- 09:30 Visualization of 3-D Pore Geometry in Carbonates
Ralf Weger, Gregor Bächle, and Gregor Eberli
- 09:45 Flooding high poro-perm reservoirs: 4D GPR imaging of preferential flow inside an oolitic limestone unit
Mark Grasmueck and David A. Viggiano
- 10:00 Effects of Multiple Fluid Substitutions on Elastic Wave Propagation Velocities in Carbonates: Preliminary Results
Gregor Baechle, Gregor Eberli, Jean-Marie DeGrange (Schlumberger) and Austin Boyd (Schlumberger)
- 10:15 Coffee break

Future Plans

- 10:30 Presentation of future projects & discussion
- 12:00 Dismissal & Lunch