

MEETING PROGRAM

2011 Annual Review Meeting

MONDAY	OCTOBER 10, 2011	MORNING
08:30	Coffee	
09:00	Welcome and Introduction <i>Gregor P. Eberli</i>	
09:15	Sea-Level Fluctuations and Carbonate Cycles <i>Gregor P. Eberli, Kelly L. Jackson, Noelle J. Van Ee, and Samuel B. Reid</i>	1
09:30	Sea-Level Oscillations during the Last Highstand (MIS 5e): Evidence from the Bahamas <i>Kelly L. Jackson, Gregor P. Eberli, Samuel B. Reid, Donald F. McNeill, Paul (Mitch) Harris, and James S. Klaus</i>	5
09:50	Amino Acid Racemization as a Dating Technique for Quaternary Corals: Testing Best Practices <i>Noelle J. Van Ee, Katherine E. Sides, and Darrell S. Kaufman</i>	11
10:00	Is There Really a Mixing-Zone Stable Carbon and Oxygen Isotope Signal? <i>Peter K. Swart</i>	17
10:15	Coffee Break	
10:45	Evidence of Ocean Anoxia in the Lower Mississippian Lodgepole Formation from Paired Carbon and Sulfur Isotope Records? <i>Amanda M. Oehlert, Peter K. Swart, Gregor P. Eberli, Samantha Evans, and Dave Katz</i>	21
11:00	Depositional Architecture of Stacked Reef Sigmoids During High-Amplitude 100-kyr Sea Level Cycles: Results of the Dominican Republic Drilling Project <i>James S. Klaus, Donald F. McNeill, Viviana Diaz, Yula Hernawati, Albertus Ditya, Peter K. Swart, and Gregor P. Eberli</i>	27
11:15	Single and Multiple Episodes of Meteoric Diagenesis in Plio–Pleistocene Carbonates, The Dominican Republic Drilling Project <i>Yulaika Hernawati, Peter K. Swart, Donald F. McNeill, James S. Klaus, Albertus Ditya, and Gregor P. Eberli</i>	31
11:30	Petrophysical Characterization of Plio-Pleistocene Reefal Limestones, Dominican Republic <i>Albertus Ditya, Gregor P. Eberli, Donald F. McNeill, James Klaus, Ralf J. Weger, and Yulaika Hernawati</i>	37
11:45	Evaluating Porosity Evolution within the Stacked Pleistocene Reef Sequences of Glover’s Reef, Belize <i>Noelle J. Van Ee, Gouert J. Buijs, Anita E. Csoma, Gregor P. Eberli, Peter K. Swart, and Robert H. Goldstein</i>	43
12:00	Lunch	

13:30	Geomicrobiology of Carbonate Sediments <i>James S. Klaus</i>	
13:45	Bacterial community Composition of Carbonate Surface Sediments from Great Bahama Bank <i>Mara R. Diaz, Alan M. Piggot, and James S. Klaus</i>	47
14:00	Microbial and Geochemical Characterization of Carbonate Mudbanks from Florida Bay <i>Alan M. Piggot, James S. Klaus, and Peter K. Swart</i>	53
14:15	Facies Heterogeneity and In Situ Carbonate-Siliciclastic Mixing in a Transpressional Basin of a Mature Volcanic Arc: Cibao Basin, Northern Dominican Republic <i>Donald F. McNeill, James S. Klaus, and Peter K. Swart</i>	57
14:30	Seismic Expressions of a Field-Scale Quintuco – Vaca Muerta Outcrop Analog – Implications for Seismic Interpretation of Mixed Carbonate – Siliciclastic Systems <i>Michael Zeller, Ralf J. Weger, Gregor P. Eberli, David L. Giunta, and Jose Luis Massaferro</i>	61
14:50	Coffee Break	
15:15	The Distal Mix - Shelf to Basin Transitions of the Mixed Quintuco - Vaca Muerta System <i>Michael Zeller, Samuel B. Reid, and Gregor P. Eberli</i>	69
15:30	Diffraction Signatures of Fractures and Karst in Full-Resolution 3D GPR: Implications for Seismic Surveys <i>Mark Grasmueck, Michael A. Pelissier, and Tijmen Jan Moser</i>	75
16:00	Velocity and Resistivity v.s. Permeability of Reefal Limestones <i>Albertus Ditya, Gregor P. Eberli, and Ralf J. Weger</i>	
16:15	Modeling Electrical Resistivity in Carbonates using Micro-CT Scans and Assessing the Influence of Microporosity using MICP <i>Jan H. Norbistrath, Gregor P. Eberli, Ralf J. Weger, Mark Knackstedt, and Klaas Verwer</i>	81
16:30	Rapid Assessment of the Impact of Hurricane Irene on the Depositional Environments in the Bahamas <i>Kelly L. Jackson, Gregor P. Eberli, Kasey Cantwell, Roni Avissar, and R. Pamela Reid</i>	87
16:45	Reception in Commons	
18:15	Return to Hotel	

TUESDAY OCTOBER 11, 2011 **MORNING**

08:15 Coffee

08:30 The Development of ‘Clumped Isotopes’ at the University of Miami
Peter K. Swart, Sean Murray, and Monica M. Arienzo

08:45 Application of Clumped Isotopes to Diagenetic Studies: An Example from the Dominican Republic
Sean Murray, Peter K. Swart, Monica M. Arienzo, and Yulaika Hernawaiti93

09:00 The Triple Threat: Stable Isotope Studies of Fluid Inclusions, Carbonate and Clumped Isotopes
Monica M. Arienzo, Peter K. Swart, Hubert Vonhof, and Sean Murray.....97

09:15 Velocity Evolution during Controlled CaCO₃ Precipitation and Dissolution
Ralf J. Weger, Klaas Verwer, Peter K. Swart, and Gregor P. Eberli.....103

09:40 Coffee Break

10:00 Comparison of Cretaceous-Paleocene Carbonate Turbidite Successions from Core and Outcrop Adjacent to the Maiella Platform Margin, Italy
Irena Andisa Maura, Gregor P. Eberli, and Daniel Bernoulli 107

10:15 Slope Failures and Transport Processes on the Slope of the Great Bahama Bank
Gregor P. Eberli, Thierry Mulder, Emanuelle Ducassou, Vincent Hanquiez, Eliane Gonthier, Pascal Kindler, I. Billeaud, Francois Fournier, Philippe Leonide, Bruno Marsset, C. Bondu, R. Joussiaume, and M. Pakiades 113

10:35 New Discovery of Abundant Giant Deep-water Coral Mounds on the Slope of Great and Little Bahama Banks
Rani Sianipar, Gregor P. Eberli, Emmanuelle Ducassou, Thierry Mulder and Philippe Leonide..... 119

11:00 Future Projects & Discussion

12:15 Dismissal

TUESDAY OCTOBER 11, 2011 **AFTERNOON**

13:45 Introduction to Field Trip

14:15 Core Workshop: Depositional Environments in Belize