Second Announcement

Advances in the Understanding and Interpretation of Carbonates

Sunday and Monday, August 27-28, 2023 George R. Brown Convention Center, Houston, Texas

This two-day SEPM event is scheduled immediately before the 2023 International Meeting for Applied Geoscience & Energy (IMAGE) and includes invited speakers focusing on key carbonate themes and poster presentations covering broader research topics across industry and academia. The fundamental goals of this event are to bring our carbonate community together, keep the spirit alive of yearly gatherings, and generate directions for future research.

NOTE DATE CHANGE: Sunday and Monday, August 27-28, 2023

We have an outstanding lineup of 21 speakers covering four carbonate themes:

From Carbonate Sediments to Sequences

Keynote Charlie Kerans (Univ. of Texas-Austin/Bureau of Economic Geology): Insights into depositional and diagenetic patterns in ancient carbonates from Bahamian-Caicos Holocene-Pleistocene successions

Shawn Fullmer (ExxonMobil): Unveiling the accretionary origins of scalloped carbonate platform margins: implications for carbonate platform evolution and demise Andrea Nolting (ExxonMobil): 3D stratigraphic architecture, secondary pore system development, and the Middle Pleistocene transition, San Salvador Island, Bahamas Jason Rush (Occidental Petroleum): Comparative anatomy of Modern and Permian oolitic tidal deltas - controls on deposition and preservation

Marjorie Cantine (Univ. of Washington): Telling time in carbonates without skeletons: constraining the Precambrian record, diagenesis, rates, and dates with in situ analysis of carbonates by laser ablation

Deep Water Carbonates

Keynote Gregor Eberli (Univ. of Miami): Competing roles of gravity flows and bottom currents in deep water carbonates

Sara Bashah (Univ. of Miami): The implication of bottom currents for carbonate slope models

Christian Betzler (Hamburg Univ.): Internal wave and current impact on carbonate platforms: the case of Saya de Malha Bank (Indian Ocean)

Buddy Price (Devon Energy): Overlooked influence of bottom currents in Early to Middle Permian strata of the Midland and Delaware Basins, West Texas and SE New Mexico Arnoud Slootman (Colorado School of Mines): Transported carbonates: knowns, unknowns and challenges of existing models

Visualization and Quanitifcation of Carbonates

Keynote Volker Vahrenkamp (King Abdullah Univ. of Science & Tech.): A new perspective on depositional, diagenetic and structural heterogeneities in shallow marine carbonates using 3D-photogrammetry, 3D geophysical surveys, AI and hydrodynamic simulations – insights from the Arabian carbonate platform

Emmanuel Dujoncquoy (TotalEnergies): Dolomitization along an ooid-dominated ramp system: origin and distribution of seismic-scale dolomite bodies combining photogrammetric and hyperspectral methods (Amellago cliffs, Morocco)

Xavier Janson (Bureau of Economic Geology/Univ. of Texas-Austin): Using seismic geomorphology combined with outcrop and modern analogues to understand carbonate platform architecture and their dynamic evolutions

Sam Purkis (Univ. of Miami): Deploying Breakout Remote Sensing Technologies and the Scaling Rules of Life to Understand Modern Carbonates

Miles Frazer (Chevron): In Pursuit of Process: Learnings from the Development of High-Fidelity Carbonate Sediment Models

Julia Wilcots (Princeton Univ.): Quantifying the carbonate rock record with text mining and image analysis

Carbonate Diagenesis and Pore Systems

Keynote Cathy Hollis (Univ. of Manchester): Unravelling complex carbonate diagenetic pathways: why we need to process, think big and sweat the small stuff Hilary Corlett (Memorial Univ. of Newfoundland and Labrador): The value of rare earth element geochemistry in carbonate geoscience Peter Swart (Univ. of Miami): The application of the clumped isotope method to understanding the formation and diagenesis of carbonate rocks and sediments Brooks Ryan (Chevron): Are we accessing the whole story on dolomitization? Lessons learned from integrating textural, mineralogical, and geochemical data Charlie Breithaupt (ExxonMobil): New concepts for cave and vug formation in eogenetic carbonate platforms: Implications for distribution, connectivity, and timing

We also have more than 20 posters covering a wide breadth of ongoing research across academia & industry. Poster session details to follow in the next announcement.

Registration will open in May – stay tuned for more information.

We hope to see you there! Thanks from the convenors: Ted Playton <u>TedPlayton@chevron.com</u> and Paul (Mitch) Harris <u>pmitchharris@gmail.com</u>