

Seismic Imaging of Depositional and Geomorphic Systems

30th Annual GCSSEPM Foundation Bob F. Perkins Research Conference

DECEMBER 5-8, 2010, HOUSTON, TEXAS

We normally prepare a preliminary list of papers in the year of the conference. The response to our call for 2010 has been so well received, that we are pleased to list the following papers that have been proposed for the conference to-date (early September, 2009). Therefore this list must be regarded as preliminary and subject to changes. It does indicate the flavor of the conference.

MacDonald, Heather, and David McGee (ConocoPhillips): Seismic architecture of weakly confined mini-basins, Gulf of Mexico.

Saller, Arthur, Ida Njoman Widya Dharmasamadhi, and Tony Lilburn (Chevron): Seismic geomorphology of submarine slopes: channel-levee complexes versus incised valleys/canyons, Pleistocene East Kalimantan, Indonesia.

Gawthorpe, Rob, Frode Hadler-Jacobsen, and Ayodeji Oluboyo (Statoil): Salt tectonic controls on the location, geometry, and heterogeneity of slope-channel complexes.

Tudoran, Andrei, Sam Henderson, and Sabrina Belknap (ExxonMobil): Influence of salt mobilization on outer shelf to deep-water Upper Cretaceous to Tertiary deposition in the central part of Santos Basin, offshore Brazil.

Morgan, Jessica, and Lesli J. Wood (BEG): Seismic geomorphologic expression of deep-marine channel architecture: mapping channel migration and its implications for development.

Vishal Maharaj (BEG): Paleo geomorphologic bathymetry in isolated basin development as an indication of tectonic state.

Dallas Dunlap (BEG): Seismic architecture and morphology of massive slope-hosted transport deposits.

Ruan, Wie, Lesli J. Wood, and J. Huang (BEG): Mass transport deposits and processes in active salt settings: seismic criteria for differentiating process and lithology.

Andrew Fuhrmann, Paul Weimer, and Michael Gardosh (Univ Colorado): Lower Pliocene remobilized deep-water sand mounds, Yafo Formation, eastern Mediterranean Sea: a head-scratching group exercise in explaining massive sand piles.

Hadler-Jacobsen, Frode, Audun Groth, Ana Serrano Oñate, Kristina Heieren, and Frode Møller Liestøl (Statoil): Temporal and spatial evolution of a shelf to to-of-slope Late Cretaceous stratigraphic record of the Santos Basin, Brazil- An exceptionally high-resolution seismic-stratigraphic and geomorphic case study.

Zhu, Xiaomin, and Yanlei Dong (Petroleum University Beijing): Application of seismic sedimentology in non-marine Qinan Sag, Huanhua Depression, China

Howard D. Johnson, Faisal A. Alqahtani, Christopher A.-L. Jackson, M. Rapi B. Som, Deva P. Ghosh, and Wan Khairul Wan Sulaiman (Imperial Petronas): Seismic data of Pleistocene rivers on the Sunda Shelf.

Punette, Stefan, and Lesli J. Wood (BEG): Imaging reservoir architecture of shelf sand systems.

Moscardelli, Lorena (BEG): Seismic geomorphology of shelf-edge deltaic systems, filling in the details.

Wood, Lesli J., and T. Lovitz (BEG): Seismic morphologic details of a Prograding fine-grained deltaic complex: Taranaki Basin, New Zealand.

Davila, Anna, and Lorena Moscardelli (BEG): Shelf and shelf-edge deltas.

Zeng, Hongliu, Quizhong Wang, and Bob Loucks (BEG): Seismic geomorphologic-, outcrop-, and core-expression of an Ordovician paleokarst system in northeast Tarim Basin, China.

Bachtel, Steven L., Henry W. Posamentier, and Thomas P. Gerber (Chevron): Seismic geomorphology of a Tertiary-aged isolated carbonate platform system, Northwest Shelf of Australia: the spatial and temporal evolution of carbonate platform environments.

Sun, Tao, Kaveh Ghayour, and James Miller (ExxonMobil): Process-based modeling of deep-water depositional systems.

Johnson, Xavier, Toni Simo, and Enzo Achoncha (BEG, ExxonMobil): seismic geomorphology of outcrop-based 3D seismic model of Carboniferous mounds and subsurface analogs.

Hunt, David, Arnout Colpaert, Florian Miquelis, Brita Graham Wall, and Jan Pajchel (Statoil): Subsurface identification of a Paleozoic carbonate system in the Barents Sea, Part I: Buildup distribution, geometry, and development.

Colpaert, Arnout, David Hunt, Florian Miquelis, Brita Graham Wall, Antony Avu, and Gaynor Fischer (Statoil): Subsurface identification of a Paleozoic carbonate system in the Barents Sea, Part II: Paleokarst identification and quantification.

Fullmer, Shawn, Melissa Hicks, Stephen Kaczmarek, Kelley Steffen, Tabitha Hensley, and Lizabeth Miles (ExxonMobil): Modern carbonate facies: Moving from description to quantitative prediction.

Zeng, Hongliu (BEG): Frequency dependency of seismic stratigraphy and seismic sedimentology.

Kiel, Brian (BEG): Quantitative ArcGIS analysis of paleo-valley seismic morphology.

Leppard, Chris, Adam Eckersley, and Stephen Purves (Statoil): Quantifying the temporal and spatial extent of depositional and structural elements in 3D seismic data using spectral decomposition and multi-attribute RGB blending.

Katz, David, Ted Playton, and Paul (Mitch) Harris (Chevron) Use of outcrop analogs to interpret seismic facies in Karachaganak Field.

Wood, Lesli J. (BEG) Utilizing seismic geomorphologic data to build better modeling frameworks.

Marfurt, Kurt (University Oklahoma) To Be Announced.

Fomel, Sergey (BEG) To Be Announced.

George, Terra J., David Mohrig, Kyle Straub, Thomas Hess, Dick Fillon, and Jeffrey Nittrouer (ConocoPhillips) 3D Seismic evaluation of fault control on Quaternary subsidence patterns, rates, and related surface morphology in southeastern Louisiana.

Vardy, M.E., J-S L'Heureux, O. Longva, L. Hansen, S. Chand, J.K. Dix, T.J. Henstock, J.M. Bull, and L.J.W. Pinson (University Southampton) Geomorphology and remote physical properties of late Quaternary slide structures using a decimeter-resolution 3D seismic volume, Trondheimsfjorden, Norway: Insights for deep-water geohazard assessment.