

GCSSEPM 41st Annual Perkins-Rosen Research Conference
17–19 November 2025, Houston, Texas

Cycles and Sequences, So What?
A 21st century perspective in memory of Peter Vail, Bob Weimer, and Larry Sloss

Monday, 17 November

- 7.30–8.00 Registration (breakfast)
- 8.00–8.30 **Keynote:** Surfaces, cycles, and the sequence stratigraphy family tree—*AD Donovan, KW Shanley, KM Bohacs, CA Yeilding*
- 8.30–8.50 The life, wisdom, accomplishments, and legacy of Larry Sloss—*Bob Mitchum, Art Donovan, Kevin Bohacs*
- 8.50–9.10 Explaining Sloss sequences using a 4D animation: views from a paleo satellite—*Paul Weimer, James Adson, Vincent Matthews III*
- 9.10–9.30 Tectonic forcing and large-scale sedimentary cyclicity—*Kurt Rudolph, Magdalena Curry, Duncan Erratt, Kevin Biddle*
- 9.30–10.00 Discussion—*Panel 1*
- 10.00–10.30 *Coffee Break and Posters*
- 10.30–10.50 Unconformities gone bad and other impacts of syn-sedimentary tectonics on sequence stratigraphic interpretation—*Lee Krystinik*
- 10.50–11.10 Sequence stratigraphic characterization of the tectonically active ridge basin, southern California: it is all about the kinematics—*Morgan Sullivan, Kenn Ehman*
- 11.10–11.30 Reconciling sequence stratigraphic interpretations between the Austin Chalk in Texas and the Niobrara Formation in the Western Interior Seaway—*Christine Griffith, Michael Pope, Arthur Donovan*
- 11.30–12.00 Discussion—*Panel 2*
- 12.00–13.00 lunch
- 13.00–13.30 Lunch with Bob Mitchum
- 13.30–13.50 Timing and stratigraphic architecture of the Greenhorn Cyclothem Transgression in central Kansas: new insights from high-resolution sedimentological analysis—*James Kalbas, Kate Andrzejewski*
- 13.50–14.10 Characteristics of syn-rift and post break-up sequences immediately above layered evaporites of the Gulf of Mexico, south Atlantic, and Red Sea—*Teunis Heyn, James Pindell, Ahmed Afifi, Joni Clark, Joshua Turner*
- 14.10–14.30 Regional geological correlation and synthesis—a decade of observations and insight from regional 2D seismic surveys—*Brian Horn*
- 14.30–15.00 Discussion—*Panel 3*
- 15.00–16.30 Exercise/Discussion—North Slope RCS 3—basin phases, play element distribution—*Jack Neal, Kevin Bohacs*

- 16.30–17.00 Wrap-Up
 17.00–20.00 ***Icebreaker***

Tuesday, 18 November

- 7.30–8.00 Breakfast
 8.00–8.30 **Keynote:** Vailian influences on careers and research direction—*Katrina Cotterill, Jack Neal*
 8.30–8.50 The state of sequence stratigraphy: time for a renaissance or a recall?—*Katy Sementelli*
 8.50–9.10 A historical perspective on testing sequence stratigraphic concepts and sea-level curves in modern environments, remote basins, incised valleys, and terrestrial sediments—*Ron Boyd, Claus Diessel*
 9.10–9.30 High resolution sequence stratigraphy and the search for Greenhouse orbital cyclicity—*Janok P. Bhattacharya*
 9.30–10.00 Discussion—*Panel 4*
 10.00–10.30 *Coffee Break and Posters*
 10.30–10.50 Relative sea level and inferred eustatic behavior for non-glacial times from the Cretaceous passive margin of northern South America—*James Pindell, Tomas Villamil, Johan Erikson, Claudia Arango, John Dewey, Paul Markwick, Walter Pitman, David Rowley*
 10.50–11.10 A quantitative definition of accommodation: implications for understanding and prediction of strata—*Peter Burgess, Bradford Prather, Ron Steel, Oriol Falivene*
 11.10–11.30 Advancing sequence stratigraphy for mixed siliciclastic–carbonate margins: toward predictive frameworks linking processes and stratigraphy—*Laura Henrika Bührig, Maria Mutti*
 11.30–12.00 Discussion—*Panel 5*
 12.00–13.00 Lunch
 13.00–13.30 Poster Session
 13.30–13.50 Shoreline to basin floor sequence stratigraphy of upper Pleistocene siliciclastics and carbonates, offshore eastern Borneo: details and deviations from Vail et al. models—*Arthur Saller*
 13.50–14.10 Sequence stratigraphy and seismic geomorphology applications for a new generation of carbon sequestration: insights into the L. Miocene, Gulf of Mexico—*Lesli J. Wood, Aldifa Afimanya*
 14.10–14.30 Sequence stratigraphic context of recent discoveries in north Alaska—*Pemberton*
 14.30–15.00 Discussion—*Panel 6*
 15.00–16.30 Exercise/Discussion—North Slope Cretaceous–Paleogene—clinothems, sub fans, etc.
 16.30–17.00 Wrap-Up

Wednesday, 19 November

- 7.30–8.00 Breakfast
 8.00–8.30 **Keynote:** Review of sequence stratigraphy of the Muddy “J” Sandstone, Wattenberg Field, Denver Basin, Colorado—*Stephen A. Sonnenberg*

8.30–8.50	The Mowry Shale of the Powder River Basin: interpretation and evaluation of a mudrock reservoir in a sequence stratigraphic framework— <i>Jeffrey May, Alexa Socianu, Stephen Sonnenberg</i>
8.50–9.10	Parasequences and bedsets—quantification of parameters from the Book Cliffs of eastern Utah— <i>John Howell</i>
9.10–9.30	Lower Cretaceous type section of the Isle of Wight and Channel Subbasin and subsurface analogs of Atlantic Canada— <i>Grant Wach, Ricardo Silva</i>
9.30–10.00	Discussion— <i>Panel 7</i>
10.00–10.30	<i>Coffee Break and Posters</i>
10.30–10.50	The Green River Formation, Utah and Colorado—a story of climate, sequences, minerals, and organic richness— <i>JF (Rick) Sarg</i>
10.50–11.10	Hierarchical bounding surfaces for subdividing erg system strata: sequence stratigraphic implications for eolian and noneolian deposits in the Jurassic Navajo Sandstone, Utah— <i>Stephen Hasiotis, Marjorie Chan, Judith Parrish</i>
11.10–11.30	Application of sequence stratigraphy to optimize groundwater projects: history and impact— <i>Kenn Ehman, Richard Cramer</i>
11.30–12.00	Discussion— <i>Panel 8</i>
12.00–13.00	Lunch
13.00–13.30	Poster Session
13.30–13.50	Guyana discoveries—a triumph of stratigraphy— <i>John Ardill</i>
13.50–14.10	Well-log correlations in a sequence (chrono-) stratigraphic vs. lithostratigraphic framework: so what?— <i>Jeffrey May</i>
14.10–14.30	The enduring legacy of sequence stratigraphy— <i>Stacy Atchley</i>
14.30–15.00	Discussion— <i>Panel 9</i>
15.00–16.30	Exercise/Discussion—Field-scale well-log cross section through an incised valley example
16.30–17.00	Conclusion of Conference

POSTER PRESENTATIONS (listed in alphabetical order)

Lamina to composite sequence set: the widespread occurrence and varying expression of sequence-stratigraphic surfaces and units from deep-sea muds on Earth to crater-lake gravels on Mars—*Bohacs*

Well log chronostratigraphic conversion of multi-basin formation units as requisite for 3D basin modeling in the Santos–Campos–Espírito Santo salt basin, Brazil—*Sharon Cornelius*

Sequence stratigraphy of the Upper Cretaceous Austin Chalk in south and central Texas—*Christine Griffith, Michael Pope, Arthur Donovan*

Ultra-high resolution core characterization leads to better constraints on vertical and lateral heterogeneity in subsurface reservoirs—*Zane Jobe*

Before the canyons: debris flows and subtle slope failures on the Miocene New Jersey shelf—*Aldiyar Mukhatzhanov, Kenneth G. Miller, Gregory S. Mountain, James V. Browning*

Stratigraphic analysis of XES02: implications for the sequence stratigraphic paradigm—*Bradford Prather, Oriol Falivene, Peter Burgess*

An insight into the complexity of parasequence-bounding flooding events—the K4 parasequence of the Blackhawk Formation, USA—*Leticia Rodriguez-Blanco, John Howell, Ivar Midtkandal, Ingrid Anell, Agustin Arguello-Scotti*

Characterization of a lowstand calciclastic deepwater system: organized channel stacking in the Decie Ranch Member, west Texas—*Conor Sullivan, Morgan Sullivan, Art Donovan, Mike Pope*

Beyond single-cause models: investigating variable pathways to submarine fan architectures in the Golo Fan system—*Ibrahim Tahiru, Peter Burgess, Chris Stevenson*

Surfing the waves of time: unveiling Scotian Basin mega-sequences through a novel Phanerozoic sea-level curve—*Douwe G. van der Meer*