

SEPM Research Conference 2023: Are Siliciclastic Parasequences Still Relevant
9-12 October 2023, Green River, Utah, USA

Preliminary program

General concepts

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| <i>Howard Feldman et al.</i> | Evolution of the parasequence concept |
| <i>John Howell</i> | In defense of parasequences—scale matters |
| <i>Janok Bhattacharya</i> | Distinguishing allogenic vs. autogenic parasequences |
| <i>Luca Colombera & Soma Budai</i> | An outcrop-oriented machine-learning approach for parasequence recognition in borehole data |
| <i>Victorien Paumard et al.</i> | Addressing the temporal and spatial variability of shelf-margin depositional systems at different stratigraphic orders |
| <i>Bruce Ainsworth & Paul Theologou</i> | Bottoms-up: A Hierarchical-based architectural recognition method for parasequences |
| <i>Ole Martinsen</i> | Parasequences and strike-variability in clastic depositional systems: back to basics or a step into the future? |

Modeling parasequences

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| <i>Agustin Arguello Scotti et al.</i> | Modeling shoreface geometries of the Kenilworth Member, Blackhawk Formation, with the GEOPARD algorithm |
| <i>Ingrid Aarnes et al.</i> | Modelling shoreface geometries with a new facies-algorithm informed by geological rules and analogue data |
| <i>Brian Willis et al.</i> | Formation of a regressive surface of marine erosion (RSME) between dual-clinoform deposits of prograding wave-dominated delta parasequences |
| <i>Thomas Jerome et al.</i> | Capturing high-resolution correlation in the mesh of three-dimensional reservoir models: a step often overlooked in geomodeling |

Ancient shorelines

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| <i>Clay Jacks & Diane Kamola</i> | Identification of potential parasequence boundaries within the Late Cretaceous Panther Tongue Sandstone, central Utah |
| <i>Takonporn Kunpitaktakun et al.</i> | Thickness variation of coarsening-upward parasequence well logs motif from inner to outer neritic environment |
| <i>Keith Shanley</i> | Parasequence and sequence control on reservoir development, Mid-Cretaceous Turner Sandstone, Powder River Basin, Wyoming |

Suzanne Kairo Using a parasequence framework to characterize sandstones and constrain rock properties

Tuoyu Wu & Janok Bhattacharya Outcrop and subsurface sequence stratigraphy of the Upper Cretaceous Gallup system in the San Juan Basin, northwestern New Mexico: constraints on supergreenhouse cyclicity and depositional environments

Quaternary shorelines

Simon Lang et al. Asymmetric wave vs. tide-dominated dryland deltas; post-LGM partial parasequence development in low accommodation, low sediment supply settings along the arid Western Australia coast

Boyan K. Vakarelov & Bruce Ainsworth Formation of parasequences on mouth bar scales: why architectural hierarchy really matters

John Holbrook et al. Century-scale sequences in the Nahal Darga Delta, Dead Sea, Israel bearing decadal scale sequences in the delta plain, but not in the delta front

Alessandro Amorosi Holocene parasequences and the measurement of geologic time

Mudstone dominated portions of parasequences

Steve Flint et al. Adding the mudstone component: return to the Grassy Member parasequences, 30 years on

Rene Jonk Processes controlling genetically-related stratigraphic successions in mud-dominated depositional systems: observations from a basin-scale cross-section through the Upper Cenomanian–Lower Coniacian sequence from southern Utah to western Kansas

Angie Abi Daoud & Janok Bhattacharya Simple parasequences in a medial shelf setting: Albian Sikanni Formation, Northwest Territories, Canada

Parasequences in the fluvial-tidal transition and into nonmarine strata

Diane Kamola Parasequence development in highstand vs. incised valley fill strata, Blackhawk Formation, Utah

Kyungsik Choi et al. Stratigraphic architecture of the inshore tidal flats in the distal fluvial-tidal transition zone of the Sittaung River Estuary, Myanmar: parasequence in a tide-dominated, sediment-laden estuary

Haley Coe et al. Rare earth element and critical mineral enrichment within the Cretaceous coastal plain deposits of Utah and western Colorado

Jennifer Wadsworth Paralic Coals Provide Insight into How Sea Level Changes Affect Terrestrial Stratigraphy