RIOMAR
2019 Annual Meeting

December 6, 2019
Research Presentations and Business Meeting
Location: SHERATON HOUSTON WEST
11191 Clay Rd., Houston, TX 77041
Schedule

Friday, December 6th, 2019

09:00 AM – 09:15 AM Introduction [Ron Steel]

09:15 AM – 11:00 AM Oral Session 1: [Chair: Cornel Olariu ]

11:00 AM – 11:30 AM Coffee Break & Poster Session

11:30 AM – 12:50 PM Oral Session 2: [Chair: David Mohrig ]

12:50 PM – 01:45 PM Lunch & Poster Session

01:45 PM – 03:00 PM Oral Session 3: [Chair: Wonsuck Kim]

03:00 PM – 04:00 PM Business Meeting [Chair: Piret Plink-Bjorklund]

AGENDA: Comments on Days talks/posters; Sponsor comments on 2020-21 plans; Oregon Field seminar in late March/April

RESEARCH TALKS

Oral session 1, Rivers, Lakes, & Aeolian
9:15 AM – 11:00 AM (Chair: Cornel Olariu)

1. Supercritical bedforms on early Gulf of California Margin slopes: Logan West
2. Preservation of fluvial channel belts in coastal settings: Benjamin T. Cardenas, John M. Swartz, & David Mohrig
4. Connecting levee deposition and floodplain deposits to suspended-sediment transport in a coastal river system: Hima Hassenruck-Gudipati
5. Investigating the construction of coastal dune systems using an aeolian surface model: Kathleen Wilson

Oral session 2, Deltas & Lakes
11:30 AM – 12:50 PM (Chair: David Mohrig)

7. Sediment supply as a key driver of shelf architecture in a mixed siliciclastic-carbonate system, Eastern Shelf, Permian Basin: Fritz Palacios
8. Unveiling lake delta architectures in modern and ancient systems by mapping river flood deposodes: Jake Gearon

Oral session 3, Deepwater Systems and Source-to-Sink
1:45 PM – 3:00 PM (Chair: Wonsuck Kim)
10. Shelf edge to base-of-slope channels: changes in sediment gravity flow content: Yuqian Gan
11. The role of structurally controlled submarine channels in minibasin morphodynamics: Xinggang Christopher Liu
12. Criteria for recognizing shelf-slope clinoforms in outcrop; Jurassic margin, S. Neuquén Basin, Argentina: Cornel Olariu
13. A theory of environmental signal propagation, preservation, and identification, Haipeng Li and Piret Plink-Björklund

POSTER PRESENTATIONS AT RIOMAR MEETING Dec. 6, 2019
1. Controls of Martian crater size and rim geometry on outlet channel morphology: Experiment and observation: Marianne Coholich
2. Linking delta shoreline & foreset-bottomset trajectories: Experiment & theory: Wonsuck Kim
3. Change in particle settling velocity based on temperature: YeJin Lim
4. Revisiting WIS deltas & their expression at 100Ky and My time scales: Keith Minor
5. Supercritical flow experiments with a wide range of grain sizes: Implications for outcrop interpretation, Piret Plink-Björklund, Kenya Ono, Matthieu Cartigny, Joris Eggenhuisen, Haipeng Li, Dessy Sapardina, Chengpeng Tan, and Jianqiao Wang
6. Channelization and supercritical flow facies in Juncal Formation basin-floor fans, Dessy Sapardina
7. Paleoenvironmental interpretation using information theory and Bayesian inference, Haipeng Li and Piret Plink-Björklund
8. The Fate of the Mississippi River Sediment Amidst the Waning Phase of the Last Glacio-eustatic Cycle: A Volumetric Quantification and Modelling of Late Quaternary Deposition Coeval with the Cessation of the Late Wisconsin Glacial Stage: Ryan J. Herring, Cornel Olariu, Mark, Helper
9. Thin to missing lacustrine deltas: the controls and sedimentary architecture of lake shorelines: Cornel Olariu, Chuanmin Zhou, Ronald Steel, Zhijie Zhang, Xuanjun Yuan, Jinyu Zhang, Si Chen, Dawei Cheng and Wonsuck Kim
10. Aeolian Dune Height Controls on the Internal Architecture of Cross Sets: White Sands Dune Field, New Mexico: Xaifei Zhao, Benjamin Cardenas, and Wonsuck Kim