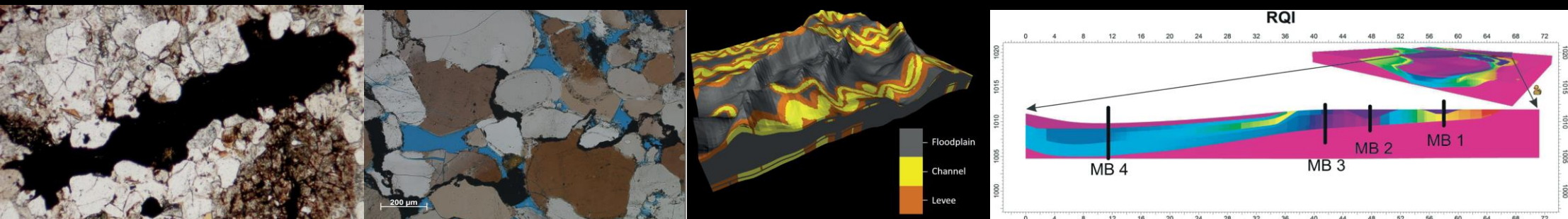


4th School on Sandstone Diagenesis: July 30 – August 3, 2023, Iowa City, IA (USA)

Controls on Sandstone Diagenesis



The Applied Sedimentology group at the GeoZentrum NordBayern (FAU Erlangen-Nuremberg) in collaboration with Geocosm LLC and Getech Group Plc., are happy to announce the 4th School on Sandstone Diagenesis. This year the school will be held at the Geology Department at the University of Iowa (Iowa City, USA) from the 30th of July to the 3rd of August 2023 and will be focused on both traditional and innovative concepts for enhanced understanding of controlling processes on diagenesis and their implications for data interpretation and modelling.

The School: The school provides a state-of-the-art review of the following topics: (i) pre-deposition controlling parameters that determine the generation and redistribution of sediments within sedimentary environments; (ii) hydraulic sorting and depositional facies as predisposing factors on early diagenesis; (iii) relationships between sedimentology and diagenetic processes; (iv) modelling of compositional data as a tool for understanding and predicting texture; (v) how sand transforms to sandstone: controls on compaction and the formation of carbonate, clay mineral, and quartz cements and replacements (vi) predicting reservoir quality: carbon capture and geothermal energy case studies. The school integrates theoretical understanding, practical experience, and exercises with emphasis on data acquisition, compositional data processing, and diagenetic modelling and reservoir quality prediction. Additionally, one day of the school is dedicated to sedimentary petrography focusing on classification of sandstone pore, framework, and interstitial components as well as methodologies for quantifying grain size distributions and grain coating coverage.

Course leaders: Dr. Luca Caracciolo (Friedrich-Alexander University, Erlangen, Germany)
 Dr. Rob Lander (Geocosm LCC, Durango, CO USA)
 Dr. Linda Bonnell (Geocosm LCC, Durango, CO USA)
 Dr. William A. Heins (Getech Group plc. Leeds, UK)

Participants: Maximum 25 including Ph.D. students, post-docs and professionals from the industry. Basic knowledge on diagenesis and sedimentology would be an advantage.

Participation fees: Ph.D. students **700 euros**
 Post-docs **1000 euros**
 Professionals from the industry **2500 euros**

Registration deadline 1st of June 2023

<https://www.gzn.nat.fau.eu/applied-sedimentology/diagenesis>

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