

StrAU Ecooil – Global Energy and Resources for the Materials of the Future



Head of Laboratory
Joerg Schneider
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Laboratory of Stratigraphy of oil-and-gas bearing reservoirs

Main goals:

- **Global scenarios of Phanerozoic events: causes, implications and lessons for the future;**
- **The precise event radiometric chronology (CA-IDTIMS) of the Earth history;**
- **Justification of causes and triggers of biotic extinctions and recoveries;**
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- Development of new biostratigraphic methods based on small scale fossils and microfossils for the biostratigraphy of drilling cores;
- Improvement of methods for palynofacies analysis and assessment of hydrocarbon potential of sedimentary sequences;
- Improvement of sequence stratigraphic methods for the analysis of mixed marine-continental and continental depositional sequences.

International Projects and Reached Results



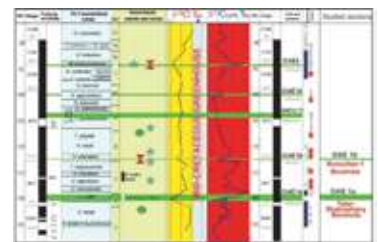
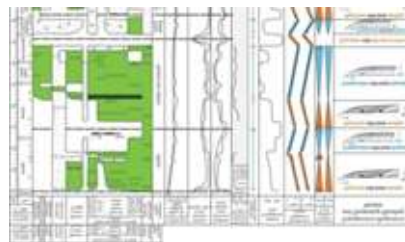
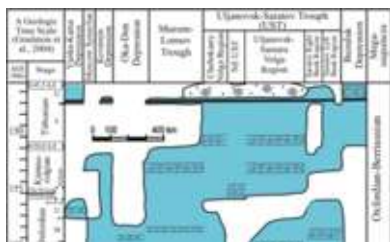
Global Carboniferous and Permian Non-Marine - Marine Correlation Project



Permian-Triassic climatic and environmental extremes and biotic response



Climate-environmental deteriorations during greenhouse phases: Causes and consequences of short-term Cretaceous sea-level changes?



Main Scientific and Educational Events



**XVIII International Congress on Carboniferous and Permian
(Kazan Federal University, August 4-20 , 2015, Kazan, Russia)**



**Kazan Summer School 2016
Upper Palaeozoic Energy Resources of European
Russia: Sedimentology, Geochemistry, Organic Facies**



Upper Palaeozoic Earth systems: high-precision biostratigraphy, geochronology and petroleum resources



Permian/Triassic-Event-Congress: red beds and the global correlation of the Permian/Triassic Boundary



**XVII All-Russian Micropalaeontological Meeting
«Modern micropalaeontology - problems and prospects»
September 24–28, 2018, Kazan, Russia**

Academic partners



Industrial partners



StrAU Ecooil – Global Energy and Resources for the Materials of the Future

Center of Excellence in the Assessment of Methane Emissions and Climate Change, Paleoclimatology and Stratigraphy

Mission

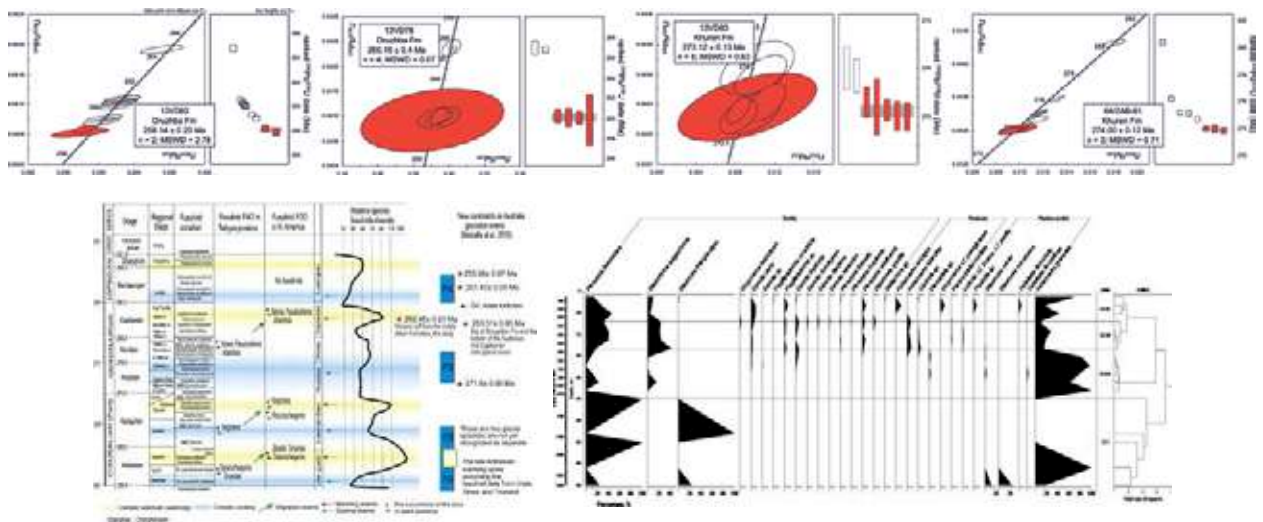
- Studying climatic history, laws and mechanisms of environmental dynamics in Holocene and Pleistocene through geological and biological proxy indicators.
- Global scenarios of Phanerozoic events: causes, implications and lessons for the future;
- Justification of causes and triggers of biotic extinctions and recoveries;

Projects

Stratigraphy of Late Paleozoic oil- and-gas bearing reservoirs

Paleoclimatology, paleoecology, paleomagnetism

Reached results



Quantitative reconstructions of ecological and climatic change in Holocene and Pleistocene of lakes in Russia and abroad.

High-precision U-Pb CA-IDTIMS dates were obtained from Permian tuff beds in the periphery of the Okhotsk Massif and from Atkan Formation in the Ayan-Yuryakh anticlinorium, Magadan province, northeastern Russia.

Agreements

- MS Double Degree Program between Kazan University and Technical University Bergakademie Freiberg (Germany)
- The cooperation agreement with Technical University Bergakademie Freiberg (Germany)
- The cooperation agreement with Chouaib-Doukkali University (Morocco)
- The cooperation agreement with the Nenets Autonomous Okrug
- The cooperation agreement with North-Eastern Federal University
- Cooperation agreement with the Northern Water Problems Institute of the Karelian center of Russian Academy of Science
- Cooperation agreement with the Geological Institute of Russian Academy of Science
- Cooperation agreement with the Paleontological Institute of Russian Academy of Science

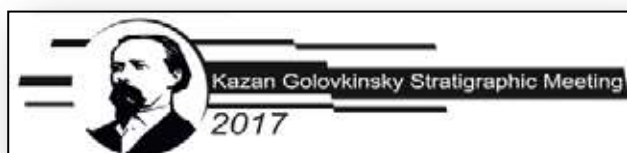
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Permian/Triassic-Event-Congress: red beds and the global correlation of the Permian/Triassic Boundary November-December 2019, Kazan, Russia

Partners

