MEETING: Joint IGCP 580/596 Meeting, Calgary, Canada: Geophysical and Geochemical Techniques: A Window on the Palaeozoic World
Date: 27. August - 1. September 2013
Place: Geological Survey of Calgary, Canada
Itinerary: 27-29. August 2013: Technical Session at Geological Survey of Calgary; 30 August 2013: Core Workshop, ERCB Core Research Center; 31. August–1. September 2013: Field Excursion to Canmore Area; 3-4. September Additional core sampling, ERCB Core Research Center

SCOPE AND RESULTS OF MEETING:

Technical Session Schedule:
Wednesday 28 August
9:00-9:30 Registration desk open
9:30-9:45 Introduction – opening
Morning session – Chairman: De Vleeschouwer, X.
9:45-10:05 Chen & Jiang Cyclic platform carbonate deposition and post-extinction biotic recovery during the Famennian of Late Devonian in Guangxi, South China: Insights from high-resolution cycle and sequence Stratigraphy
10:05-10:25 Bennett et al. Rebuilding terrestrial ecosystems after the end-Devonian mass extinction: insights from the TW:eed Project
10:25-11:00 Coffee Break
11:00-11:30 Key Note: Babek et al. Towards better comprehension of magnetic signal in carbonates: lessons from Palaeozoic and Cenozoic sedimentary archives
11:30-11:50 Whalen et al. Geochemistry and Cyclostratigraphy of Magnetic Susceptibility data from the Frasnian-Famennian event interval in western Canada: Insights into the pattern and timing of a biotic crisis
11:50-12:10 Gilmanova D.M. et al. Sequence-stratigraphy and astronomical calibration of the Middle-Late Permian sediments on the right shore of the Volga River near Kazan city
12:10-1:30 Lunch
Afternoon session – Chairman: Day, J.
1:30-2:00 Key Note De Vleeschouwer, D. et al. The astronomical calibration of the Givetian (Middle Devonian) time scale (Dinant Synclinorium, Belgium)
2:00-2:20 Kumpan et al. Element geochemistry, gamma-ray spectrometry and magnetic susceptibility as correlative tools for the Devonian-Carboniferous boundary interval in Europe
2:20-2:50 Coffee Break
2:50-3:10 Da Silva et al. Characterisation of cyclicity and relative sea-level fluctuations using magnetic susceptibility, Late Devonian (Frasnian) Hull platform, Canning Basin, Australia
3:10-3:30 Devleeschouwer, X. et al. Multi-proxy study of shallow platform carbonates at the Devonian/Carboniferous boundary (Ertoucun and Nanbiancun, South China): a diachronous detrital event

3:30-3:50 Jadot & Boulvain Sedimentology and magnetic susceptibility of recent sediments from New Caledonia

Thursday 29 August
Morning session – Chairman: Babek, O.
9:30-10:00 Keynote: Gouwy et al. Lower and Middle Devonian conodont biostratigraphy and Conodont Apatite $\delta^{18}O$ variations in the Southern Illinois Basin, USA

9:50-10:10 Da Silva et al. Spicules or no spicules in Devonian stromatoporoids, that’s the question?

10:10-12:00 Poster Session – coffee break

Alekseev A.O. et al. -- Magnetic susceptibility (MS) and XRF characterization of a Viséan – Serpukhovian boundary section in southern Moscow Basin, Russia

Bahrami, A. et al. -- Middle Devonian environment and pre-Taghanic event in Central Iran

Guo, Z. & Chen, D. -- Magnetic susceptibility variations across the Frasnian-Famennian boundary successions of interplatform basinal carbonates, South China

Gouwy, S.A., et al. -- Mid-Devonian biodiversity and the Paleobiology Database

Hubert, B.L.M. et al. -- Macrofauna, rock magnetism and sedimentology in the Evroengt Limestone (‘Strunian’, Uppermost Famennian) at Avesnelles (northern France)

Kabanov P.B., et al. -- Devonian and Carboniferous paleosols of central-southern East European Craton preserving pristine magnetic, mineralogical, and geochemical signatures

Rădan, S.C. et al. -- A magneto-lithological approach of the recent sediments from the Danube Delta, focused on some more or less connected pairs of lakes; environmental inferences

Sunjay S. & Kumar, S. -- Wavelet Analysis of Paleomagnetic Data

Bahrami, A., Boncheva, I., Yazdi, M. & Khan-Abadi, A.E. -- Mississippian / Pennsylvanian boundary interval in Central and East Iran

12:00-1:30 Lunch

Afternoon session – Chairman: De Vleeschouwer D.

1:30-1:50 Zaitsev et al. Bulk geochemical expression of Late Visean - basal Serpukhovian cyclothemes of southern Moscow Basin, Russia

1:50-2:10 Day et al. Magnetic susceptibility and carbon isotope stratigraphies through the Devonian-Carboniferous boundary interval in the western Illinois basin-central North America

2:10-2:30 Devleeschouwer, X. et al. Changes in carbonate production and detrital influx in relation with the Frasnes Event (Sourd d’Ave section, Belgian Ardennes): new insights from multi-proxy analyses

2:30-3:00 Coffee Break

3:00-3:20 Koptikova et al. Petrophysical and sedimentological record of the Late Silurian Lau event in the shallow water carbonate facies (Prague Synform, Czech Republic)

3:20-3:40 Seersma, G. et al. -- Middle to Late Devonian deposits of the Baruunhuurai Terrane, western Mongolia

3:40-4:00 IGCP-580, what’s next?

Achievements of Meeting

During this conference 16 talks and 10 posters were presented by participants of IGCP 580 and IGCP 596. Additionally, a core workshop was held at the ERCB Core research Center in order to discuss carbonate lithofacies, reservoir quality, source facies and diagenetic models in a stratigraphic framework.
High qualified women scientists and students with little or no financial background from Europe and Mongolia were invited to this joint meeting supported by grants from the UNESCO and the FWF.

Outcome of Meeting


Including abstracts of following oral and poster presentations:
ALEKSEEV A.O., KABANOV P.B., ZAITSEV T.E. & ALEKSEEVA T.V. – Magnetic susceptibility (MS) and XRF characterization of a Viséan – Serpukhovian boundary section in southern Moscowl Basin, Russia.
BAHIRAM, A., BONCHEVA, I., SAFARI, Z. & YAZDI, M. – Middle Devonian environment and pre-Taghanic event in Central Iran.
DA SILVA, A.C., GEORGE, A.D., CHOW, N. & SPASSOV, S. – Characterisation of cyclicity and relative sea-level fluctuations using magnetic susceptibility, Late Devonian (Frasnian) Hull platform, Canning Basin, Australia.
CHEN, D. & JIANG, M. – Cyclic platform carbonate deposition and post-extinction biotic recovery during the Famennian of Late Devonian in Guangxi, South China: Insights from high-resolution cycle and sequence Stratigraphy.
DA SILVA, A.C., KERSHAW, S., BOULVAIN, F., HUBERT, B. L. M., MISTIAEN, B., REYNOLDS, A. & REITNER, J. – Spicules or no spicules in Devonian stromatoporoids, that’s the question?
DE VLEESCHOUWER, D., BOULVAIN, F., DA SILVA, A. C., PAS, D., LABAYE, C. & CLAEYS, P. – The astronomical calibration of the Givetian (Middle Devonian) time scale (Dinant Synclinorium, Belgium).
DEVLEESCHOUWER, X., SOBIEN, K., KUMPAN, T., SPASSOV, S., CHEN, D. & BÁBEK, O. – Multi-proxy study of shallow platform carbonates at the Devonian/Carboniferous boundary (Ertoucen and Nanbiancun, South China): a diachronous detrital event.
GILMANOVA D.M., KRYLOV P.S., NOURGALIEV D.K., FATTAKHOV A.V. & NOURGALIEVA N.G. – Sequence-stratigraphy and astronomical calibration of the Middle-Late Permian sediments on the right shore of the Volga River near Kazan city.

GOUWY, S.A., KIDO, E. & SUTTNER, T. – Mid-Devonian biodiversity and the Paleobiology Database.

GOUWY, S.A., DAY, J. & MACLEOD, K. G. – Lower and Middle Devonian conodont biostratigraphy and Conodont Apatite δ18O variations in the Southern Illinois Basin, USA.

GUO, Z. & CHEN, D. – Magnetic susceptibility variations across the Frasnian-Famennian boundary successions of interplatform basinal carbonates, South China.


JADOT, HÉLÈNE & BOULVAIN, FRÉDÉRIC – Sedimentology and magnetic susceptibility of recent sediments from New Caledonia.

KABANOV P.B., ALEKSEEV A.O. & ALEKSEEVA T.V. – Devonian and Carboniferous paleosols of central-southern East European Craton preserving pristine magnetic, mineralogical, and geochemical signatures.

KOPTIKOVA. L., VACEK, F., SOBIEN, K. & SLAVIK, L. – Petrophysical and sedimentological record of the Late Silurian Lau event in the shallow water carbonate facies (Prague Synform, Czech Republic).


SERSMAA, G., KIDO, E., SUTTNER, T., WATERS, J.A. & ARIUNCHIMEG, YA. -- Middle to Late Devonian deposits of the Barunnuurai Terrane, western Mongolia.


ZAITSEV T.E., KABANOV P.B. & ALEKSEEV A.O. – Bulk geochemical expression of Late Visean - basal Serpukhovian cyclothemes of southern Moscow Basin, Russia.

BAHRAMI, A., BONCHEVA, I., YAZDI, M. & KHAN-ABADI, A.E. – Mississipian / Pennsylvanian boundary interval in Central and East Iran.

Signature of Project Leader and Date

Frankfurt, 13.12.2013