

GeoShale 2012

GEOSHALE 2012 - Recent Advances in Geology of Fine-Grained Sediments.

Preliminary Conference Programme

Conference Venue: Focus Building, Aleja Armii Ludowej 26, Warsaw

Icebreaker Party Venue: Polish Geological Institute, Rakowiecka 4, Warsaw

Monday 14 May 2012

Start: 9.00 a.m. / Finish: 4.00 p.m.

Opening Ceremony

I Session

Stratigraphic Study of Fine-Grained Sediments - From Biostratigraphy to Integrated Stratigraphy / chairmen: Daniel Goldman, University of Dayton & Teresa Podhalańska, Polish Geological Institute

KEYNOTE - Goldman D., Podhalańska T., Sheets D. H., Bergström S. M., Nölvak J., Reinhart K., "High-resolution stratigraphic correlation and Biodiversity Dynamics of Middle and Late Ordovician Marine Fossils from Poland and Baltoscandia"

Brański P. "Clay minerals record of climatic disasters at the Triassic-Jurassic boundary and in Early Toarcian (examples from the fine-grained deposits in Polish Basin)"

Podhalańska T., "Lower Silurian „hot” shales in Poland – stratigraphy and depositional environment"

Pieńkowski G., "From black to green shale – anoxic seas and greenhouse lands in disturbed Jurassic world"

Golonka J., Waškowska A., "Beloveža Formation versus Hieroglyphic Beds in the Magura Nappe, Outer Carpathians, Poland"

II Session

Tectonics of Shales / chairmen: Ken McCaffrey, Durham University & Piotr Krzywiec, Polish Academy of Science

KEYNOTE - McCaffrey K., Gluyas J. G., Davies R. J., Imber J., Armstrong H. A., "Shale and Coal basins of NE England: Opportunities for research and industry collaboration in Unconventional Hydrocarbons"

Santos Betancor I., Soto J. I., Lonergan L., Sánchez Borrego I., Macellari C. E., "Mud Mobilization and Folding History in the South Caspian Basin"

Wróbel G., Walker P., Poprawa P., Krzywiec P., Tomaszczyk M., „Tectonic decoupling along the Silurian shale complex in the Lublin Basin, SE Poland”

Krzywiec P., "Role of shales during compressional tectonics: comparison of the Variscan (L. Carboniferous) basin inversion of the Lublin Basin and the Appalachians"

Soto J. I., Fernández-Ibáñez F., Santos Betancor I., Talukder A. R., Macellari C. E., "Thin-skinned extension and shale tectonics in a tilted basin margin: the case of the Northern Alboran Sea (Mediterranea)”

Kobchenko M., Renard R., Meakin P., Panahi H., Dysthe D. K., Malthe-Sørenssen A., Mazzini A., Scheibert J., Jamtveit B., "Time resolved 3D imaging of organic-rich shales during heating"

2.00 p.m. – 4.00 p.m. POSTER SESSION

6.30 p.m. – 9.30 p.m. ICEBRAKER PARTY
(Polish Geological Institute, Rakowiecka 4, Warsaw)

Tuesday 15 May 2012

Start: 9.00 a.m. / Finish: 4.40 p.m.

III Session

Organic and Inorganic Geochemistry of Fine-Grained Sediments

chairmen: Achim Bechtel, Montanuniversität Leoben & Leszek Marynowski,
University of Silesia

KEYNOTE - Bechtel A., Hámor-Vidó M., Gratzner R., Sachsenhofer R. F., Püttmann W.,
"Facies evolution and stratigraphic correlation in the early Oligocene Tard Clay of Hungary"

Hardy M. J., Davis C., Kaufman J., Molyneux S., Klimentidis R., Ferguson I., "Poland Shale
Gas/Oil Play: Integrating Old and New Disciplines to Interpret Unconventional Resource
Potential of an Early Paleozoic Source Rock"

Dobrzyński D., Wolicka D., "Needs and challenges in comprehensive hydro-geo-microbio-
chemical approach to forecast interactions in the fracturing fluid - reservoir rock - pristine
groundwater system"

Szczerba M., Respondek M., "Controls on distributions of methylphenanthrenes in
sedimentary rock extracts: Critical evaluation of existing geochemical data from molecular
modelling"

Mastalerz M., Schimmelmann A., Gao L., "Microbial versus thermogenic gas system:
Comparison of Devonian/Mississippian shales with Pennsylvanian coals in the Illinois Basin"

Kremer B., "Origin of organic matter in the early Silurian cherts and siliceous shales of
Poland"

Melezhik V. A., Fallick A. E., Črne A. E., Lepland A., "Supergiant petrified oil field in two-
billion-year turbiditic greywacke-shale succession in the eastern Fennoscandian Shield"

Waškowska A., Golonka J., Krobicki M., Strzeboński P., Vašíček Z., Skupien P., "Organic-rich
shales of the Proto-Silesian Basin in Polish-Czech Carpathians"

IV Session

Shale Diagenesis and Effects on Shale Properties / chairmen: Jan Środoń, Polish Academy of Science & Arkadiusz Derkowski, Polish Academy of Science

KEYNOTE - Środoń J., "Timing and the maximum paleotemperatures of diagenesis of the Lower Paleozoic shales on the Peri-Tornquist margin of the East European Craton evaluated from clay mineral data"

Taylor K. G., Macquaker J. H. S., "Mineral diagenesis in clay- and silt-rich mudstones: the Mancos Shale, Book Cliffs, Utah"

Jahren J., "Quartz cementation in shales relevant for shale gas reservoirs"

Schicker A., Gier S., "Clay mineral and organic diagenesis of Malmian Marlstones, Vienna Basin"

Sutton S. J., King N., "Relationship between mineralization and fabric in the Nonesuch Shale: implications for fluid migration pathways in fine-grained rocks"

V Session

Accumulation of Muddy Sediments - Sedimentology of Fine-Grained Rocks chairmen: Kevin Bohacs, Exxon Mobil Upstream Research Company & Paweł Lis, Polish Geological Institute

KEYNOTE - Bohacs K. M., Passey Q.R., Lazar O. R., Rudnicki M., Esch W. L., "Some of my source rocks are now oil reservoirs— the spectrum of fine-grained reservoirs from ‘shale gas’ to ‘shale oil’"

Jaeger H., "Black shale deposition on a carbonate platform (Aran Islands, Ireland) - organofacies, geochemistry and sequence stratigraphic interpretation"

Spaw J. M., Stone R. A., Wilty R. H., Kuchinskiy V., "Identification, Integration and Upscaling of Mudrock Types in Poland - A Pathway to Unlocking Shale Resources"

Lis P., Kaufman J., Bohacs K. M., Hardy M. J., "TOC variation through lithofacies in Ordovician to Silurian Shales, Eastern Poland"

Breyer J. A., Bunting P. J., Monroe R. M., Steed M B., "Lithologic and Stratigraphic Variation in a Continuous Shale Gas Reservoir: The Barnett Shale (Mississippian), Fort Worth Basin, Texas"

Feldman-Olszewska A., "The Middle Jurassic black shales from the central part of Polish Basin - sedimentary environments studies"

KEYNOTE - Schieber J., "An Overview of Experimental Mudstone Sedimentology - Results of Experiments and Applications to the Rock Record"

Baouche R., "The use of FMI Images in Geological Interpretation of Ordovician unit and Devonian through the wells Takw-1 and Take-1. Illizi Basin. Algeria"

Essefi E., Yaich C., "Mathematical optimization of classification systems of the descriptive grain size distribution: a new classification scheme based on mathematical criteria"

VI Session

Geophysical Contributions to Understanding Shale Properties and Behavior / chairmen: **David Dewhurst, CSIRO Australian Resources Research Centre & Grzegorz Wróbel, Polish Geological Institute**

KEYNOTE - Mondol N. H., "Relationships among porosity, permeability and seismic velocity in mudstones and shales"

Lemmens H., "Multiscale Imaging of Shale Core Samples"

Baig I., Faleide J. I., Mondol N. H., Jahren J., "Effects of Uplift and erosion on Shale Compaction and Exhumation Estimates in the SW Barents Sea"

KEYNOTE - Dewhurst D., Sarout J., Delle Piane C., Siggins T., Clennell B., Raven M., "The Mechanics and Physics of Strength Prediction and Partial Saturation in Shales"

Radlinski A. P., Melnichenko Y. B., Blach T. P., "Nano- and micropore structure and accessibility in source rocks and tight reservoirs as determined by neutron and X-ray scattering"

Baouche R., "Integrating CMR, MRF log and conventional logs in Devonian and Ordovician"

Wednesday 16 May 2012
Start: 9.00 a.m. / Finish: 1.10 p.m.

VII Session

Exploration & Production Experience in Oil/Gas Shale Prospects

chairmen: Laura Reich, Marathon Oil Corporation, Monika Koniecznyńska, Polish Geological Institute, Tomasz Maj, Talisman Energy Poland

Poprawa P., "Gas and oil shale formations in Central Europe – an overview"

Kabdenov S., Gringarten A., Kostyleva I., "Well test analysis of horizontal wells with multiple hydraulic fractures in a gas shale reservoir"

Berner U., Marquardt D., Stiller E., "Assessing gas shales – Example from the Lower Cretaceous of Germany"

Maj T., "Gas from shale. Local Communities - Cooperation or Conflict?"

Gunning A., Drop K., Kozłowski M., "Analysis and evaluation of European Shale Gas plays. Case Study"

Solecki A. T., Tchórz-Trzeciakiewicz D. E., "Opal as a carrier of uranium in menilite shales"

Golonka J., Krobicki M., Waśkowska A., Słomka T., "Source Rock Prediction Value as a tool for exploration of unconventional hydrocarbons in Carpathians"

Koniecznyńska M., Antolak O., Starzycka A., "Environmental impact of hydraulic fracturing treatment performed on the Łebień LE-2H well"

Poprawa P., "Environmental concerns related to gas and oil production from shale reservoirs – impact related to technological approach versus importance of local geological setting"

Solecki A. T., Nowak K. J., Gasz M. R., "Radiological safety of metamorphosed black shales of the Niemcza Zone (NZ) and the Niemcza – Kamieniec Ząbkowicki Metamorphic Unit (N-KZMU)"

1.00 p.m. Conference closing