



T21.13 - Unconventional Hydrocarbons and Emerging Fuels *Date* **Thursday, 01 September 2016** *Time* **14:00** *to* **15:30**
Chair *Room* **MR 1.61**

Times		Paper # Title	Speaker
14:00	14:30	5479 Strategic Environmental Assessment for shale gas development in South Africa	Paul Lochner Keynote
14:30	14:45	3373 A multidisciplinary approach to decipher the complexity and potential of an unconventional gas resource: The Permian Whitehill Formation (Karoo Basin, South Africa)	Professor Annette E. Goetz
14:45	15:00	778 A Synthetic Study of Unconventional HC Potential Reservoir in Taiwan	Dr. Louis Loung-Yie Tsai
15:00	15:15	147 "Petroleum Exploration into Black Shale System": Characteristics and Potentials	Dr. Caineng Zou
15:15	15:30	53 Petroleum Accumulation: from Continuous to Discontinuous	Prof. Jingzhou Zhao

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16:00	16:15	1302 Sweet spots prediction and quantitative evaluation of gas-bearing shale based on the optimized log interpretation	Prof. Maojin TAN
16:15	16:30	798 Development of the groundwater theme of the interactive vulnerability map for unconventional oil and gas in South Africa	Mrs. Surina Esterhuysen
16:30	16:45	1816 Diagenetic, thermal and provenance histories of the Permian lower Ecca Group based on two newly drilled boreholes in the western and eastern main Karoo Basin, South Africa	Ms. Claire Geel
16:45	17:00	557 Palynofacies of Permian black shales (Karoo Basin, South Africa): A powerful tool for shale gas exploration	Prof. Annette E. Goetz
17:00	17:15	206 The impact of dolerite intrusions on the organic-rich mudstones of the Ecca Group in a borehole from the central Karoo Basin	Mr. ELIJAH ADENIYI
17:15	17:30	1131 The use of thermomagnetic curves for paleotemperature evaluation in sedimentary basins	Dr. Leonie Maré
17:30	17:45	1568 2D and 3D Inversion Results from Magnetotelluric Survey in the Eastern Karoo Basin, South Africa	Ms. Jade Candice Greve

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	1345 Unconventional potential of the Lower Paleozoic strata in the Lublin-Podlasie Basin (eastern Poland)	Dr. Pawel Kosakowski
	2555 Cryogenic fracture behaviour of Indian Gondwana shale - A laboratory study	Mr. Ashutosh Tripathy
	2621 Tight reservoir of Lucaogou formation in Jimusar sag, Junggar basin	Mr. Yunzhao Zhang
	558 Thermal alteration of sedimentary organic matter in response to igneous intrusion (Karoo Basin, South Africa) and its implication for shale gas exploration	Prof. Annette E. Goetz
	1211 Fracturing fluids additives selection for Polish Sylurian shale - from laboratory research to field application	Dr. Piotr Kasza
	597 Controlling Factors of Pore Types in Shale Reservoirs from the Lower Silurian Longmaxi Formation in Eastern Sichuan Basin, China	Mr. Yikai Geng
	3015 KARIN explores the Karoo Basin and its fossil energy resources: New findings and perspectives from deep drill cores	Professor Annette E. Goetz
	2042 Lab experiments on the formation artificial flowback from hydraulic fracturing with energized fluid	Dr Krzysztof Labus
	3241 Storage Space Characterization and Reservoir Potential of Terrestrial Shale in China	Prof. Rukai ZHU
	3010 Characteristics of the Early Silurian organic-rich black shales in central part of the Baltic Silurian Basin: implications for shale oil(gas) reservoir quality	Dr. Grazina Skridlaite
	2726 Analysis of hydraulic flow parameters in shale gas formations from north Poland	Ms. Paulina Krakowska
	4986 A baseline study of groundwater resources and connectivities in anticipation of hydraulic fracturing in the Karoo	Mr. Divan Stroebel
	1932 Energized fracturing fluids as an alternative for effective stimulation of shales gas formation	Master of Science Klaudia Wilk
	4172 Linxi Formation shale gas resources prospect of Late Permian in the middle-southern part of Da Hinggan Mountains in China	Mr. Jian Zhang
	49 Identification of Potential Reservoir Intervals in Oil-shale Formations based on Geochemical Data	Ms. Svetlana Mozhegova
	5074 High-resolution X-ray computed microtomography use in geology – a case study of Baltic Basin unconventional reservoir rocks	Dr. Tomasz Wejrzanowski
	2584 Pore structure characteristics and controlling factors of mud stone and shale of the 3rd section of Es3 in Zhanhua Sag	Mr. Chuanxiang Ning
	2761 Source–Reservoir Assemblage Types and Differential Accumulation Mechanisms in Tight Oil Reservoirs - A case study in Qingxi Sag	Dr. Qun Luo
	5498 3D geology modelling from boreholes, cross-sections and geological maps to support shale gas potential investigations in the Beaufort West area, South Africa	Haajierah Mosavel
	1832 Variations in isochore thickness of the Karoo sediments in the Eastern Cape Province of South Africa, as deduced from gravity models	Mr. Christopher Baiyegunhi
	3240 Spatiotemporal sedimentary facies variations in the Permian Whitehill Formation, main Karoo Basin	Mr. Kenneth Chukwuma
	198 Porosity Evolution of Lacustrine Organic-matter-rich Shales in China	Dr. Xiufen Zhai
	4352 Deep borehole stratigraphy and basin structure of the southern Karoo Basin, South Africa	Dr. Bastien Linol
	5497 Deep stratigraphic borehole for shale gas geo-environmental baseline research in the Karoo	Dr Luc Chevallier

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	890 Several Issues in Studies on Fine-grained Sedimentary Rocks	Mr. Yuan Deng
	2610 Formation Mechanism of Bedding Fractures in the Lucaogou Formation Tight Reservoir in Jimusar Sag, Junggar Basin	Mr. Yunzhao Zhang
	1619 Geological structure and hydrocarbon potential of Late Jurassic sedimentary deposits in the West Siberian Province	Mr. Alexander Shpilman
	3109 Thrust and reverse faulting of Permian black shales (Karoo Basin, South Africa): New insights from borehole KZF-1	Professor Annette E. Goetz
	4581 Geophysical characterization of the southwestern Karoo Basin using gravity, density and borehole data, South Africa	Mr. Zusakhe Nxantsiya
	5632 Petrographic, geochemical and petro-physical analysis of the Collingham Formation near Jansenville, Eastern Cape, South Africa – potential cap rocks to shale gas in the Karoo	Ms. Dawn Black
	4433 Geochemical, Mineralogical and Pore structure of Shales from Auranga basin, Jharkhand, India	Ms. DIVYA MISHRA Mr. SANKI BISWAS
	2473 Shale gas formations from the northern Poland – analysis of rock classification	Ms. Paulina Krakowska
	4926 Southern Main Karoo Basin: Assessing the Lower Permian shale formations potential for shale gas	Mr. Selwyn Adams Mrs. Zainab Edries
	1469 Borehole breakout analysis from borehole image logs in the Ulleung Basin, East Sea: preliminary results for interpretation of in situ stress state	Dr. Gil Young Kim
	856 Lithofacies and Sedimentary Micro-facies of Fine-grained Sedimentary Rocks in the Second Member of Kongdian Formation in Cangdong Sag	Mr. Yuan Deng

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08:00	08:15	2942 New unconventional potential of the mature petroleum provinces – a case study of Poland	Mr. Pawel Poprawa
08:15	08:30	2456 Heterogeneity of Silurian and Ordovician shale gas deposits in Poland investigated by Factor Analysis applied to well logging data	Dr. Kamila Wawrzyniak-Guz
08:30	08:45	95 Stress field and natural fracture systems in Lower Paleozoic shale belt in Poland based on borehole images	Dr. Birger Hansen
08:45	09:00	1213 Sylurian shales hydraulic fracturing operation quality assurance as a key of successful treatment - case study	Dr Wieslaw Prugar
09:00	09:15	5531 Oil and gas fields discovery potential in oil and gas prospecting zones of the Russian Federation	Dr. Pavel Melnikov
09:15	09:30	2546 The Discovery of the Global Biggest Lower Paleozoic Shale Gas Field of Fuling Shale Gas and its Suggestion for Exploration Prospect of Shale Gas in China	Prof. Zhijun Jin
09:30	09:45	1707 USGS assessments of unconventional gas and oil resources in China	Dr. Christopher Potter
09:45	10:00	2395 Nano-geology and unconventional oil and gas	Prof. Yiwen Ju

Times		Paper # Title	Speaker
10:30	10:45	1894 Enrichment Mechanism of Source and Seal Coupling Shale Gas of Upper Ordovician Wufeng Formation - Lower Silurian Longmaxi Formation in Sichuan Basin	Prof. Zhi Jun Jin
10:45	11:00	2346 Qualitative and quantitative characterization of transitional shale reservoir: A case study from the Upper Carboniferous Taiyuan shale in eastern uplift of Liaohe Depression, China	Ms. Qin Zhang
11:00	11:15	197 In-situ Fracturing Characterization of Tight Sand: Insight for Reservoir Stimulation	Dr. Songtao WU
11:15	11:30	1621 Evaluation on Favorable Lithofacies and sweet spot of Ek2 Tight Oil in Cangdong Sag, Bohai Bay Basin, North China	Mr. Wenzhong Han
11:30	11:45	675 Unlocking Key Factors of Liquid-Rich-Shales: "Massive Resource Area" & "Sweet Area" Evaluation	Dr. Zhi Yang
11:45	12:00	2363 Characterization of Pore-Throat Structure and Prediction of Sweet Spot of the Eocene Low Permeability-Tight Beach-Bar Sandstone Reservoirs in the Dongying Depression, Bohai Bay Basin, China	Dr. Jian Wang

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	4536 A further evaluation of mud cooling technology for gas hydrate exploration	Prof. Youhong Sun
	5246 Geochemical Comparisons of Natural Gas in Inclusions and Reservoirs of the XuJiaHe Formation, Sichuan Basin, China	Prof. Zhiyong Chen
	2116 Heat flow and a rough estimation of gas hydrate in sediments at the Patagonian active continental margin offshore Chile	Bsc. LUCIA VILLAR MUÑOZ Dr. IVAN VARGAS-CORDERO
	1981 Sandstone reservoir chronological tightening attributed to their mineral components and differential burial-diagenetic evolution - A case study of the He 8 Group, Upper Paleozoic from the eastern Ordos Basin	Prof. Jinglan Luo
	1884 Physical property analyses using pressure cores recovered from the Ulleung Basin, East Sea, Korea	Dr. Joo Yong Lee
	2366 Study on Pore Structure Characteristics of Tight Sandstone Oil Reservoir: Evidences from Chang 7 Member in Ordos Basin, China	Mr. Quanqi Dai
	2209 Implications of mass transport deposit for gas hydrate-bearing seismic chimneys in the Ulleung Basin, East Sea, Korea	Dr. Nyeon Keon Kang
	2484 Methane hydrates of the Russian Arctic seas: forecasts of distribution and resource assessment	Dr. Tatiana Matveeva
	1348 Porosity well logging prediction for tight oil reservoirs with variable matrix parameter in Zahaquan area, Qaidam Basin	Prof. ZHANG Xiaoli
	2196 Analysis on Charging Process of Lacustrine Tight Oil in Ordos Basin, China: Evidence from Fluid Inclusions	Dr. Zhengjian Xu
	4175 Photocatalytic Hydrogen Production by Modified Titania Catalysts	Mr. Abniel Machin
	2190 Seismic characteristics of gas hydrate and free gas in the northwest Ulleung Basin, East Sea	Dr. Dong Geun Yoo
	1091 Carbon Dioxide Migration in Sediments on the Chatham Rise, New Zealand	Dr. Richard Coffin
	3679 Gas hydrate identification near seafloor based on geological and geophysical methods in the eastern Pearl River Mouth Basin of South China Sea	Mr. Chunbo Jiao
	3524 Gas torches as the search feature of hydrocarbon deposits	Dr. Sergii Goshovskyi
	1526 Pore Pressure Prediction in Gas Hydrate Bearing Sediments of Krishna-Godavari Basin, India	Dr. Rima Chatterjee
	904 International gas hydrate research program: Key findings and perspectives	Dr. Sung-rock Lee
	2416 Geostress Research and Application at Lucaogou Formation Tight Oil Reservoir in Jimsar Sag, Junggar Basin	Mr. Jian Wang
	762 Diagenesis and its Impact on the Reservoir Quality of Chang 7 Tight Sandstones in Ordos Basin, China	Mr. Wenchao Dou
	2197 Characteristics and Controlling Factors of Lacustrine Tight Oil Accumulation of Yanchang Formation in Ordos Basin, China	Dr. Zhengjian Xu
	2644 Pore Structure Research and Application of Rate-controlled Mercury Penetration at Chang 7 Tight Oil Reservoir at Ordos Basin	Ms. Xu Zhu
	733 Characteristics and Controlling Factors of Lacustrine Tight Oil Accumulation: A Case Study from Yanchang Formation, Ordos Basin, China	Dr. Zhengjian Xu
	2369 A Method of Logging Recognition for Pore Structure of Tight Sandstone Oil Reservoir	Mr. Quanqi Dai
	2639 Estimation of the gas-hydrate resource volume using 3-D seismic and well-log data in the Ulleung Basin, East Sea	Dr. Bo-Yeon Yi

Times

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14:00	14:15	862 Numerical simulation of gas hydrate exploitation from subsea reservoirs	Dipl.-Ing. Georg Janicki
14:15	14:30	5212 Delineation and assessment of gas-hydrates in Krishna-Godavari basin, eastern continental margin of India	Dr. Kalachand Sain
14:30	14:45	1615 Identification of Bottom Simulating Reflectors (BSRs) to help uncover potential gas hydrates within the Orange Basin, South Africa	Mr. Anthony Fielies
14:45	15:00	1092 Spatial Variation in Vertical Methane Migration and Contribution to Shallow Sediment Carbon Cycling: Hikurangi Margin, Mahia Peninsula, New Zealand	Dr. Richard Coffin
15:00	15:15	5614 The unconventional hydrocarbon potential in the Volga-Urals, West and East Siberia, Russian Federation	Dr. Pavel Melnikov