

3rd Jordan International Oil Shale Symposium and the 36th CSM Symposium 2016

Madaba, Jordan
21 - 22 November 2016

ISBN: 978-1-5108-5395-9

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57 Morehouse Lane
Red Hook, NY 12571



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Printed by Curran Associates, Inc. (2018)

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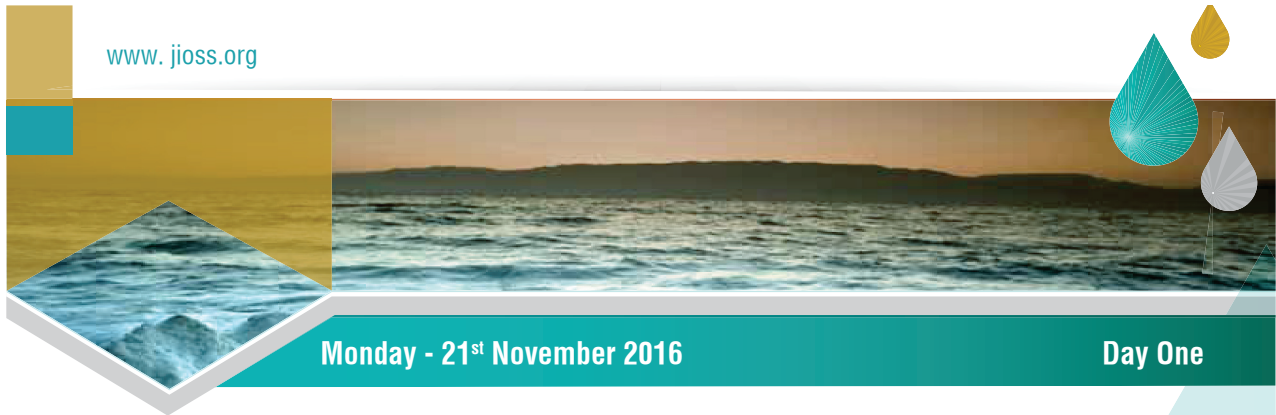
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Monday - 21st November 2016

Day One

08.30	Registration and morning refreshments
09.00	National Anthem and Reading from the Quran
09.10	Opening remarks by the Chairman: Dr. Ghaleb Maabreh, Chairman, National Petroleum Company
09.20	Official opening speech by the Minister of Energy and Mineral Resources
09.40	World Energy Council (TBC)
Distinguished Panel 1 10.20	<p>Government Efforts to Encourage Oil Shale Investment</p> <ul style="list-style-type: none"> • Jordan is 96% dependent on imports of oil from countries in a politically unstable region. The continuity of supply may be not assured. • Jordan's top priority is Energy Security • The Government's perception of economic and geopolitical risk • Jordan's Energy Road Map to overcome the current challenges • Jordan's policy incentives for oil shale investment projects • The Government's outlook for opportunities of future cooperation between government and international companies in Jordan and in ME Region • The oil shale industry needs a commercial mindset and political will in these critical situations. • Long term energy partnerships through contractual agreements are healthful, building the trust and confidence that are needed during the current crisis. The agreements are clear messages to political & business leaders on the mutual benefits derived from sustainable energy trade flows. <p>Panellists: H.E. Dr. Jawad Anani, Deputy Prime Minister for Economic Affairs Dr. Ibrahim Saif, Minister of Energy and Mineral Resources Ahamd Qatarneh, Secretary General, Ministry of Environment H.E. Thabit Al Wir, President, Jordan Investment Commission</p>
10.50	<p>Continued Evolution of our Oil Market – Within the Context of the IEA 2016 World Energy Outlook 1 Speaker: Nathan Frisbee, Senior Analyst, Global Energy Economics, International Energy Agency 'IEA'</p>
11.10	Exhibition Opening and Morning Networking Break & Refreshments
11.40	<p>Oil Shale Project Development Journey. 7 Speaker: Andres Anijalg, Chairman of the Management Board, Attarat Power Company</p>





Monday - 21st November 2016

Day One

12.05	Jordan Oil Shale Company Production Pilot - Jordan Field Experiment Speaker: Yusuf Siddiqui, Shell Country Chairman & General Manager, Jordan Oil Shale Company	25
12.30	KIO Oil Shale Project: Progress & Challenges Speaker: John Fraser, Director, Karak International Oil	34
12.55	SACOS Leads a New Era of Oil Shale Exploitation Speaker: Dr. Trad Mohammed Al-Ahmed, Saudi Arabian Corporation for Oil Shale	42
13.20	Enefit - Operating the World's Largest Oil Shale Industry Hando Sutter, Chairman of the Management Board, Enefit	49
13.40	Lunch & Networking	
	TRACK A Resource Assessment Oil Shale Chemistry, Geology and Mining	TRACK B Oil Shale Processing, Retorting Firing and Upgrading
14:40	The Isfir-Jafr deposit in Southern Jordan and The Resource Assessment of the Isfir-Jafr Oil Shale Deposit in Southern Jordan Speaker: John Brodylo, Questerre Energy Corporation	Extractive De-sulfurization of High Sulphur Shale Oil by Thio-phenes Extraction Speaker: Abdelhafid Foughalia, TTU Galoter
15:00	Oil Shale Sulfur Content Variations with Different Analytical Methods Speaker: Birgit Maaten, Tallinn University of Technology	Appraising the Jordan Oil Shale , an example of novel subsurface disciplines integration Speaker: Wasfi Omari, Jordan Oil Shale Company
15:20	Characterisation of Shale Oil Produced by Retorting Sultani Oil Shale Speaker: Dr. Omar Ayed, Al-Balqa Applied University	Design Considerations of Oil Shale Semi Coke Combustion in Circulating Fluidized Bed Speaker: Dr. Yiqun Huang
15:40	Assessing the Geochemical Variability of Jordan Oil Shale: Laboratory Geochemistry Vs. Multivariate Statistics Speaker: Prof. Alvar Soesoo, University of Tartu, Estonia	Sensitivity Analysis of Oil and Gas Production in the In-Situ Pyrolysis of Maoming Oil Shale Speaker: Dr. Peng Guo, SINOPEC



Monday - 21st November 2016

Day One

16:00	Afternoon Networking Break	
	TRACK C Environmental Impact and Mitigation Measures	TRACK D Oil Shale Strategies, policies and Challenges
16:30	<p>EIF Onshore Discharges Tool. A Modelling Tool to Assess Environmental Risk to Soil, Groundwater and Surface Water from In-Situ Kerogen Oil Production 126 Speaker: Randi Hagemann, Statoil</p>	<p>Engaging in Public-Private Partnerships with Oil Shale Developers 133 Speaker: Osama Sulieman, Director PPP Unit Ministry of Finance</p>
16:50	<p>Geophysical Alterations And Groundwater Flow Implications Of In Situ And Ex Situ Conversion Of Oil Shale In The Piceance Basin, Colorado, With Applications For Other Oil Shale Basins Via Semi-Advanced Groundwater And 3D Geologic Computer Models Speaker: Paul Quinn, International Consultant, Ambet LLC N/A</p>	<p>Jordan Oil Shale Industry - Making Progress in Difficult Times Speaker: Eyas Shuaibi, Partner Trowers & Hamblins LLP 144</p>
17:10	End of Symposium Day One	
19:30	Dinner	

Countries Participating



Tuesday - 22nd November 2016

Day Two

08.30	Registration and morning refreshments
09.00	Opening comments from the Chairman: Dr. Ghaleb Maabreh, Chairman, National Petroleum Company
Panel Discussion 2 09.10	<p>Government Involvement and Support to Investment Projects</p> <ul style="list-style-type: none"> • Support of a host government can improve the feasibility of an oil shale project and help it secure financing. • Types of support range from tax concessions through purchase agreements to partial ownership of the assets. • The support of Jordan's government is presently limited to facilitating project implementation. • What procedures are in place for obtaining licenses, permits, and concessions? • What other types of involvement are needed and desired? • How are these potential initiatives constrained by Jordan's laws and policies? • What regulatory changes is the Government working on? • What is the schedule for completing these revisions? <p>Panellists: Secretary Generals of Relevant Governmental Authorities H.E. Eng. Amani Azzam, Secretary General, Ministry of Energy and Mineral Resources Eng. Wijdan Al Rabadi, Commissionaire, Energy and Mineral Resources Commission His Excellency Eng. Abdelfattah Al Daradkeh, Managing Director, National Electric Power Company Dr Khair Hadidi, Water Authority of Jordan Hussain Al Mansi, Director of Exemptions Affairs, Jordan Customs Dr. Waleed Bawaneh, Income and Sales Tax Department Jordan</p>
09.40	Challenging Oil Shale Geology of Central Jordan 153 Dr. Vaino Puura, Professor Emeritus, University of Tartu
Panel Discussion 3 10.00	<p>Financing Oil Shale Projects and the Current Challenges</p> <ul style="list-style-type: none"> • Keys to successful oil shale investment project financing • Appetite and capacity of Jordanian banks for lending to support oil shale mega-projects • How to accurately determine if a project is still feasible and commercially viable • Success stories of oil shale project financing • How World Bank Group involvement helps enhance oil shale investment projects • What is the World Bank Group Strategy for developing countries and how do oil shale projects align with World Bank Group's approach to the energy sector? • How oil shale companies can assure compliance with environmental and social best practices and World Bank Group international performance standards. <p>Panellists: Nathan Frisbee, Senior Analyst, Global Energy Economics, International Energy Agency 'IEA' Andres Anijalg, Chairman of the Management Board, Attarat Power Company Dr. Adli Kandah, Director General, Association of Banks in Jordan Chris Nurse, Director, CEO, Karak International Oil</p>
10.40	Morning Networking break and Refreshment
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Day Two

11.40	The Ways to Achieve Independence from the Oil Price Volatility for Oil Shale Projects in Jordan Ruslan Salikhov, Deputy Chief Engineer Designer, TTU Galoter, Russia 167	
12.05	Red Leaf Resources Update: TOTAL Update, Technology Update, Future Plans and Reusable Capsules Lance Lehnhof, Director and Vice President of Corporate Affairs, RedLeaf Resources Inc 188	
12.35	Financing Oil Shale Projects in the Current Macro Environment US\$50/Barrel Oil: Challenges and Path Forward David Argyle, Managing Director, Global Oil Shale Holdings Inc (GOSH) N/A	
13.00	Lunch & Networking	
	Track A Financing Oil Shale Projects and enhancement of Projects Economics	Track B Commercialisation and Industry Developments
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14:20	Integrated Development of Renewable Energy and Oil Shale Speaker: Dr. Jamal Jaber, Faculty of Engineering Technology, Al-Balqa' Applied University 289	Oil Shale Development in Jordan, HSSE/SP and Operational Excellence to Achieve Goal Zero Speaker: Malek Abu Rumman, JOSCO 232
14.40	Ways and Means for Oil Shale Economic Enhancements Speaker: Munther Bseiso, Al-Qamer for Energy and Infrastructure Ltd 203	Al-Qamer Oil Shale Project at Attarat Umm Ghudran Khaled Khraisat, Geology and Mining Manager Al-Qamer for Energy and Infrastructure Ltd 239
15:00	Afternoon Break and Refreshment	
Closing Panel 15.30	<p>Outlook for the Oil Shale Industry</p> <ul style="list-style-type: none"> • The world has plentiful supplies of energy resources, and technologies are available to sustain economic growth and satisfy increasing populations. • However the time of easy oil & gas has come to an end, and hydrocarbon production is becoming increasing complex, whether in geology or petroleum engineering and technology. • What role will fossil fuels play in the future global energy mix? • What role will oil shale play? • How can technologies be improved to provide greater efficiency throughout the oil shale cycle, from mining to consumption, and to reduce the carbon intensity of the industry? • Well-developed frameworks and policies are needed to build a balanced energy profile, including oil shale <p>Panellists: H.E. Eng. Amani Azzam, Secretary General, Ministry of Energy and Mineral Resources Yusuf Siddiqui, Shell Country Chairman & General Manager, Jordon Oil Shale Company Munther Akroush, Vice Chairman, Karak International Oil Andres Anijalg, Chairman of the Management Board, Attarat Power Company Dr. Trad Mohammed Al-Ahmed, Saudi Arabian Company for Oil Shale</p>	
16.00	Close of Symposium	

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