



Advanced Resources
International, Inc.

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Advanced Resources International QUARTERLY UPDATE

Unconventional Resources • Enhanced Recovery • Carbon Sequestration

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Advanced Resources International is a professional services firm that provides geological, reservoir engineering, business and policy analysis and advice on a global basis related to unconventional gas resources, enhanced oil recovery and geologic carbon sequestration. Our quarterly update highlights current industry trends, ongoing and completed projects, recent publications, upcoming workshops and events, and company news. We encourage you to visit our website at www.adv-res.com to learn more about our company history, research and technology activities, industry news and much more. You may also contact our offices listed at the bottom of this page for additional information.



ENHANCED COALBED METHANE (ECBM) RECOVERY

George J. Koperna, Jr. attended the Wyoming-Shanxi Province Coal Bed Methane Symposium in Laramie, Wyoming on June 21, 2016, he presented, "Enhanced Coalbed Methane (ECBM) Recovery", which discussed the benefits of co-injection of nitrogen and carbon dioxide in coal seams to recover methane, reduce the impact of coal swelling, and improve carbon dioxide storage. He also participated in a closing panel session discussing the challenges and potential paths forward for CBM development in China.

For more information:

http://www.adv-res.com/pdf/Enhanced-Coalbed-Methane-ECBM-Recovery-Shanxi_Koperna.pdf

<https://www.cvent.com/c/express/82176a64-90bf-494f-bb6e-9025fd6c6415?i=8536e47d-1adf-4065-bf52-5c28221f66d1>



REPORT OF THE U.S.-CHINA CLIMATE CHANGE WORKING GROUP TO THE 8TH ROUND OF THE STRATEGIC AND ECONOMIC DIALOGUE

George J. Koperna, Jr. attended the 3rd CCWG/CCUS Workshop in Xi'an, China in June 2016, under the CCWG's CCUS Initiative, the U.S. Department of Energy (DOE) and the National Development and Reform Commission of China (NDRC) are working together to facilitate the development of CCUS projects in both countries to ultimately help drive down the cost of commercial projects. He provided presentations on the Southeast Regional Carbon Sequestration Partnership's CO2 pipeline construction and infrastructure as well as the status of the International Organization for Standardization's Technical Committee 265 on carbon dioxide capture, transportation, and geological storage.

For more information:

<http://www.state.gov/e/oes/rls/rpts/258282.htm>

<http://www.cctv-america.com/2016/06/07/full-text-2016-china-u-s-strategic-and-economic-dialogue-strategic-fact-sheet>

<http://www.adv-res.com/pdf/2016-CCWG-Annual-Report.pdf>



NATIONAL DEVELOPMENT &
REFORM COMMISSION
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NEW BID ROUND ACCELERATES MEXICO'S SHALE POTENTIAL

Scott H. Stevens, senior vice-president and Keith Moodhe, project manager, both with Advanced Resources International, Inc. wrote the article, "New Bid Round Accelerates Mexico's Shale Potential", which has been published in the Oil & Gas Journal, Volume 114, Issue 6, p. 39-42, June 6, 2016. The article assesses Mexico's vast and highly prospective shale oil and gas potential. It also describes ARI's multi-client geologic and reservoir data package on the country's shale resources, which has been purchased by 12 global oil company clients so far. With Mexico's shale auction expected later this year or in 2017, ARI continues to

update and offer our unique data base to new industry clients.

For more information:

<http://www.oqi.com/articles/print/volume-114/issue-6.html>

<http://www.oqi.com/articles/print/volume-114/issue-6/exploration-and-development/new-bid-round-accelerates-mexico-s-shale-potential.html>



UNCONVENTIONAL PETROLEUM LIQUIDS: TAR SANDS AND SHALE OIL

Vello Kuuskraa, president of Advanced Resources International, wrote the chapter entitled, "Unconventional Petroleum Liquids: Tar Sands and Shale Oil", included in Volume 1: Fossil Fuels of the recently published World Scientific Series in Current Energy Issues edited by Gerard M Crawley. The series includes two additional volumes on Solar Energy and Energy from the Nucleus.

For more information:

<http://www.worldscientific.com/series/wsscei>



ANNUAL PROGRESS MEETING OF THE M4SHALEGAS PROJECT

On May 26-27, 2016, Michael Godec attended the Annual Progress Meeting of the M4ShaleGas Project in Utrecht, Netherlands. Mr. Godec serves as a member of the Advisory Board for this project. The M4ShaleGas Project – Measuring, Monitoring, Mitigating, and Managing the Environmental Impact and Risks of Shale Gas – is focused on building a technical and social knowledge base on best practices and innovative technologies for environmentally-secure shale gas development in Europe. As part of this 18 organization, 10 country collaborative effort, the Advisory Board is responsible for following the project's progress and to provide comments, advice and information for consideration by the Project Team to help improve their efforts. During the meeting, Mr. Godec and the other members of the Advisory Board provided verbal comments and questions during and after the discussion sessions. They also provided written Advisory Board feedback for consideration by the Project Team.

For more information:

<http://www.m4shalegas.eu/home.html>



LESSONS LEARNED ON PHASE III ACTIVITIES BY REGIONAL PARTNERSHIPS

Dave Riestenberg participated in a panel discussion on "Lessons Learned on Phase III Activities by Regional Partnerships" at the 2016 Midwest Carbon Sequestration Science Conference in Champaign, Illinois on Monday, May 16th.

For more information:

<http://www.sequestration.org/resources/reports.html>

<http://isen.northwestern.edu/2016-midwest-carbon-sequestration-science-conference>

<http://www.sequestration.org/resources/PAGMay2016/index-PAG2016.html>



UPCOMING EVENTS

Unconventional Resources Conference (2016URTeC)

San Antonio, TX

August 1-3, 2016

<http://urtec.org/2016>

Thirty Third Annual International Pittsburgh Coal Conference

International Convention Centre

Cape Town, South Africa

August 8 – 12, 2016

<http://www.engineering.pitt.edu/pcc/>

2016 Mastering the Subsurface Through Technology Innovation and Collaboration:

Carbon Storage and Oil and Natural Gas Technologies Review Meeting

Sheraton Station Square Hotel

Pittsburgh, PA

August 16-18, 2016

<http://netl.doe.gov/events/fy16-c-store-rd>

SPE Annual Technical Conference and Exhibition

Dubai World Trade Centre

Dubai, UAE

September 26 – 28, 2016

<http://www.spe.org/atce/2016/>

GHGT-13

SwissTech Convention Center

Lausanne, Switzerland

November 14 – 18, 2016

<http://www.ghgt.info/>

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