

Energy Boost for Aberdeenshire Primary Schools

Every primary school in Aberdeenshire will receive a new learning resource about energy and the environment. Several hundred copies of *Oil and Natural Gas* have been given to the schools by Total E&P UK and the SPE Aberdeen Section. *Oil and Natural Gas* is SPE's first educational book for students, and features topics such as deepsea drilling, deepwater technology, global oil, fuel for electricity, and oil substitutes.

On 30 September, Jeb Tyrie, SPE Aberdeen Section Chairperson and Sandra McIntosh, Communication Adviser with Total E&P UK, gave a copy of *Oil and Natural Gas* to the children of Dunnottar Primary School in Stonehaven. Two recent graduates from Total E&P UK demonstrated Total's reservoir pressure model with the help of the children. The Aberdeenshire Council was represented by Councilor Isobel Davidson, Vice Chairperson of the Education, Learning, and Leisure Committee. Robert Smith, a member of parliament for the West Aberdeenshire and Kincardine constituency, was also present.

Total E&P UK and the SPE Aberdeen Section have supported the communities in which they operate and, in particular, sponsor initiatives that encourage schools to learn and understand the history and future of the energy industry and the vital role it plays today.



Jeb Tyrie (left), SPE Aberdeen Section Chairperson, and Robert Smith (right), a member of parliament for the West Aberdeenshire and Kincardine constituency, with students from Dunnottar Primary School in Stonehaven.

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SPE APOGCE Offered Informative Sessions

The 2008 SPE Asia Pacific Oil & Gas Conference and Exhibition (APOGCE), held 20–22 October, at the Burswood Convention Center in Perth, Australia, was attended by more than 1,200 people from 33 countries. The event was hosted by the SPE Western Australian Section with the theme “Gas Now: Delivering on Expectations.” The conference featured an opening session with speakers Vince Santostefano, Woodside Energy and 2008 Conference Chairperson; Colin Barnett, Premier of Western

Australia; and Leo Roodhart, 2009 SPE President.

More than 100 papers and posters were presented in 27 technical sessions and a poster session. The conference also included a keynote session, panel sessions, and topical luncheons. The four panel sessions titled “Implications of Climate Change,” “Managing Carbon,” “High Price, High Cost,” and “Making Gas Mega Projects Work” were well attended.

The 2007 SPE Regional Awards and SPE Distinguished Corporate Support

Awards for the Northern and Southern Asia Pacific region were presented at the Monday luncheon. During the Tuesday luncheon, the winners of the SPE Asia Pacific Regional Student Paper Contest were announced.

The conference provided an insight to the petroleum industry to 53 high school students from the Perth area on Education Day, and more than 60 young professionals took part in a Young Professionals Workshop to identify and discuss the issues of importance with their peers and senior industry executives.



Colin Barnett, Premier of Western Australia, delivers the opening address.



From left: Leo Roodhart, 2009 SPE President; Cordella Wong-Gillett, SPE Managing Director, Asia Pacific; Robyn Tamke, 2008 APOGCE Conduct Committee Chairperson; Colin Barnett, Premier of Western Australia; Beverley Ronalds, 2008 APOGCE Program Committee Chairperson; and Vince Santostefano, 2008 APOGCE Conference Chairperson, at the 2008 SPE APOGCE.



The 2007 SPE Regional Awards for the Northern and Southern Asia Pacific region were presented at the conference. From left: Leo Roodhart, 2009 SPE President; SPE Southern Asia Pacific Regional Director Fauzi Imron; SPE Northern Asia Pacific Regional Director Mohd Jukris Abdul Wahab; Pham Huu Hau, SPE Regional Outstanding Young Member Award, Northern Asia Pacific; Phongsthorn Thavisin, SPE Regional Health, Safety, Security, Environment, and Social Responsibility Award, Northern Asia Pacific; Prijo Hutomo, SPE Regional Health, Safety, Security, Environment, and Social Responsibility Award, Southern Asia Pacific; Paul Massarotto, SPE Regional Service Award, Southern Asia Pacific; Ramlan Abdul Malek, SPE Regional Service Award, Northern Asia Pacific; Mark Sheppard on behalf of Weatherford, SPE Distinguished Corporate Support Award, Southern Asia Pacific; and Maroot Mrigadat on behalf of PTT E&P Public Company, SPE Distinguished Corporate Support Award, Northern Asia Pacific.



At the South American and Caribbean Section Officers Meeting during the SPE Annual Technical Conference and Exhibition, from left (standing): Fernando Machado, Macae Section Chairperson; Otto Santos, Bahia-Sergipe Section Program Chairperson; Cesar Gama, Caracas Petroleum Section Treasurer; Bill Cobb, 2008 SPE President; Jose Felix Rodriguez, Caracas Petroleum Section Membership Chairperson; Nelson Saavedra, Latin American and Caribbean Petroleum Engineering Conference 2009 Technical Program Chairperson; and Carlos Pedroso, Macae Section Events Director. From left (sitting): Marcos Assayag, Brazil Section Chairperson; Nigel Sookdeo, Trinidad and Tobago Section Director; José Luis Bashbush, Caracas Petroleum Section Chairperson; Ruben Caligari, South America and Caribbean Regional Director; and Alberto Sampaio, Reservoir Description and Dynamics Regional Director.

At the 2008 SPE International Thermal Operations Heavy Oil Symposium (ITOHOS) in Calgary, from left: Behrooz Fattahi, 2010 SPE President; Tracy Grills, Conference Director-Oil and ITOHOS Planning Committee; and Samuel Chang, Membership/Conference Director-Gas, in the SPE booth.



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surfactant still remaining), an additional 2% of the OOIP was produced. After approximately 2 PV of water injection, the system pressure was lower and the surfactant had been flushed out of the core. At this point, the waterflood response could be determined.

Over the next 2.5 PV of water injection, only an additional 1% of the OOIP was recovered. Therefore, the waterflood was considerably less efficient than it was before the DI-AS flood, again indicating a more-oil-wet condition. After approximately 5 PV of water injection, a surfactant flood was performed, at the same injection velocity. The surfactant alone was not able to affect low IFT, but in the bulk-liquid

studies, it made glass more water-wet; therefore, the surfactant flood was performed in an attempt to restore the original wettability of the rock. When the water saturations in different locations (emulsions, pores, and films) were considered, a better understanding of the flood response was achieved. During the waterflood, the WIO-emulsion saturation decreased slowly, and the surface- (pore-) water saturation increased. Therefore, the low-rate waterflood was breaking the emulsions and reforming the water channels, resulting in no additional oil recovery. Upon injecting 0.1% surfactant solution, the same trend was observed. However, after shutting in the core and then recom-

mencing injection, the surface-water saturation increased sharply and the emulsion saturation decreased to zero. Likewise, an increase in the film-water saturation also was measured.

It is not known why the injection of the brine-AS solution did not revert wettability to oil-wet conditions. Instead, this solution seemed simply to cycle through the water channels with, essentially, no additional oil recovery. However, with surfactant injection and soaking, or potentially with prolonged low-rate waterflooding, the core could be restored to its water-wet state. Therefore, additional waterflooding recovery may be possible, and this will be the focus of future investigations. **JPT**