



Society of Petroleum Engineers

New Mexico Tech Campus • 801 Leroy Place • Socorro • New Mexico
Telephone: 575.835.5412 • Fax: 575.835.5210

SPE Distinguished Lecturer

David S. Hughes

Synergy Ltd

will speak on

**“The Strategic Significance and
Practicalities of CO₂ EOR and
Storage”**

Monday, April 13, 2009

**11:30 a.m. Social Hour and Lunch
12:00 p.m. Lecture**

**New Mexico Tech
Macey Center-Copper Room
Socorro, NM**

**Lunch sponsored by NMT SPE student
chapter**



Abstract

The key message is the worldwide opportunity to use the skills of the oil industry to exploit the synergy between reduced CO₂ emissions and sequestration of CO₂ in depleted reservoirs.

The UK has a soon to be legally binding target to reduce CO₂ emissions by 60% by 2050. As a contribution to achieving this much of the UK's fossil-fuelled power, generation is expected to be replaced by new coal-fired power stations equipped with carbon capture. This will make available large

quantities of CO₂ which could be injected into depleted reservoirs.

The UK is collaborating with Norway and other countries around the North Sea rim in the planning of CO₂ storage regulations and infrastructure, and is assisting in the development of carbon capture and storage technology in developing countries. There is no experience of injecting anthropogenic CO₂ into offshore oil fields so despite the maturity of land-based CO₂ EOR, this is a new challenge.

As there is a global imperative to reduce CO₂ emissions, this opportunity is also available to other countries with significant coal-fired electricity generation and an indigenous oil industry (e.g. USA and China). The talk will include policy background, plans by Utility Companies, sources and sinks for CO₂, the EOR opportunity, infrastructure requirements and engineering challenges.

Biography

David S. Hughes is a reservoir engineer with 27 years' experience. Since 2000, he has worked for Senergy Ltd (formerly Reservoir Management Limited) in Aberdeen, in the UK.

Throughout his career he has specialized in the scientific, technical and engineering aspects of enhanced oil recovery processes including hydrocarbon and CO₂ gas injection, chemical and biological processes, and in situ combustion.

David has undertaken design assessments of CO₂ EOR projects in offshore and onshore reservoirs. He was first involved in such assessments in the 1980s, and is currently a member of the team at BP designing the first offshore CO₂ EOR project in the North Sea Miller Field.

David also edits the online periodical, "Improved Oil Recovery (IOR) Views" (<http://ior.senergyltd.com>). He holds a BS Honours degree in Physics from the University of Surrey, UK.

PLEASE RSVP BY 5pm, Thursday, April 9th

Karen Balch

Petroleum and Chemical Engineering Department

Phone: 575.835.5412

E-mail: kmbalch@nmt.edu

Upcoming SPE DSL's and Meetings

Friday, May 1, 2009

New Mexico Tech Petroleum Engineering
Senior Design Presentations
Socorro, NM
1:30pm, MSEC 101

Langdon B. Taylor Banquet
Hosted by NMT SPE student chapter
Macey Center
5:00pm Social Hour, 6:00pm dinner

Saturday, May 2, 2009

Dr. Chen Classic
Golf Scramble
NMT Golf Course
11:30am Registration and Lunch
1:00pm tee off
\$25 includes lunch, green fees, cart

SPE Roswell Section Golf Tournament.
Date, Time, and Location TBD

Roswell Section 2008-09 SPE Officers

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