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SOCIETY OF PETROLEUM ENGINEERS, NEW DELHI SECTION



Winner of 2006 SPE President's Award for Section Excellence

SPENDSEC

NEWS

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Chairman's Corner



Dear Member,

World today is facing an apparent dichotomy. On one hand, climate change has been identified as one of the gravest environmental concerns. On the other hand, greater access to energy is one of the most important parameters to gauge the development of mankind. While emissions and concentration Green House Gases (GHG) on account of anthropogenic activities are the most potent sources of global warming which are feared to cause global catastrophe of unprecedented scale, burning of fossil fuel- which emit GHG to the atmosphere- is still the most important source of energy and is expected to remain so for foreseeable future globally. There is thus no immediate solution ready for abatement of this apparent dichotomy.

However, there has been global initiatives address this issue. The World Energy Council (WEC) is promoting sustainable supply and use of energy for the greatest benefits of all the people. Under the aegis of United Nations Framework Convention on Climate Change (UNFCCC), many protocols have been devised to limit the emission of GHG. Solutions now exist to limit greenhouse gas emissions which involve both the implementation of current and emerging technologies and the modification of human behaviour and ways of life. Some solutions will facilitate both access to energy and the security of energy systems.

India can not remain insulated from this global issue. As a developing country tipped to be one of the emerging superpowers, India has an important role to play. The scope and the potential to address the dual issue of energy sustainability and mitigation of climate change are enormous here. It can reap the benefits of Kyoto Protocol under UNFCCC through initiating Clean Development Mechanism (CDM) projects and help reduce emission of GHGs. Alternate energy and CO₂ capture and storage (CCS) are some other ways to address the dichotomy. Every industry and every individual can contribute towards bringing the climate change and providing solutions to the energy. However, the issues are not clear to every mind.

From this perspective, this section has deemed it important to have better and clearer understanding of the need of the day. And certainly, there is no better person than Dr R K Pachauri, Director General, TERI to speak on this issue. I am sure we all will be benefited from his talk during our special meeting scheduled for December 11, 2006.

Looking forward to meeting you during the December meeting.


 A.K. Hazarika

Innovation, innovation and innovation!!!

November Technical Meeting Report

Sunil Kumar Singh

SPE New Delhi Section meeting was held on November 3, 2006 at India Habitat Centre, New Delhi. Dr. M. Rashid Khan, SPE Distinguished Lecturer, Saudi Aramco delivered a lecture on "Crude Quality & Value Enhancement: An Opportunity for Innovation"



SPENDSEC Officers with SPE Distinguished Lecturer
 Dr. Rashid Khan

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Issue Sponsored by





Revised Reserves and Resources Guidelines Available for Industry Review

The Society of Petroleum Engineers (SPE) is continuing its efforts in working with organizations worldwide to establish internationally accepted guidelines for the evaluation of petroleum reserves and resources.

The SPE Oil and Gas Reserves Committee was charged with drafting revised guidelines to address new requirements due to technology advances and changing commercial issues. The proposed 2007 Petroleum Reserves and Resources Classification, Definitions and Guidelines are now ready for industry review. This document has been reviewed by and is sponsored jointly with the World Petroleum Council (WPC), American Association of Petroleum Geologists (AAPG) and Society of Petroleum Evaluation Engineers (SPEE).

The proposed system would update and replace the current guidelines as contained in the 1997 SPE/WPC Petroleum Reserves Definitions and the 2000 SPE/WPC/AAPG Petroleum Resources Classification and Definitions. These definitions and guidelines are designed to establish technically-based reserves and resources evaluation standards for the international petroleum industry. While ideally, national reporting and regulatory disclosure agencies would reference these technical standards, they do not replace those currently required by these agencies.

The proposed document is being posted on the websites of SPE and our partner organizations to solicit broad international input from our membership. While individual opinions are welcome, it is preferable if organizations would critically review the proposed system and then submit a consolidated opinion based on internal consensus.

SPE would like to receive your comments by 1 February 2007. Please address your comments by email to ogr@spe.org

For further detail- visit www.spe.org

December Special Meeting

Monday, December 11, 2006

"Challenges for Industry—Energy and Climate Change"

Distinguished Speaker

Dr. R.K. Pachauri
Director General-TERI
(The Energy and Resources Institute)

Guest of Honour

Mr. R.S. Sharma
C&MD, ONGC



Venue :
Windsor Hall, Le Meridien,
New Delhi-110001

To check details visit "Events" section at
our website at
<http://newdelhi.spe.org>

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"Challenges for Industry—Energy and Climate Change"

Dr. R.K. Pachauri
Director General-TERI (The Energy and Resources Institute)

Dr. Rajendra K Pachauri assumed his current responsibilities as the head of TERI (The Energy and Resources Institute) in 1981, first as Director and, since April 2001, as Director-General. TERI does original research and provides professional support in the areas of energy, environment, forestry, biotechnology, and the conservation of natural resources to governments, institutions, and corporate organizations worldwide. In April 2002, Dr Pachauri was elected the Chairman of the Intergovernmental Panel on Climate Change, established by the World Meteorological Organization and the United Nations Environment Programme in 1988. He has been active in several international forums dealing with the subject of climate change and its policy dimensions.



To acknowledge his immense contributions to the field of environment, he was awarded the Padma Bhushan by the President of India in January 2001.

Commencing his career with the Diesel Locomotive Works, Varanasi, where he held several managerial positions, Dr Pachauri joined the North Carolina State University in Raleigh, USA, where he obtained an MS in industrial engineering in 1972, a Ph.D. in industrial engineering and a Ph.D. in economics. He also served as Assistant Professor (August 1974-May 1975) and Visiting Faculty Member (Summer 1976 and 1977) in the Department of Economics and Business.

On his return to India, he joined the Administrative Staff College of India, Hyderabad, as Member Senior Faculty (June 1975-June 1979) and went on to become Director, Consulting and Applied Research Division (July 1979-March 1981). He joined TERI as Director in April 1981.

He has also been a Visiting Professor, Resource Economics, at the College of Mineral and Energy Resources, West Virginia University (August 1981-August 1982); Senior Visiting Fellow, Resource Systems Institute, East-West Center, USA (May-June 1982); and Visiting Research Fellow, The World Bank, Washington, DC (June-September 1990). Recognizing his vast knowledge and experience in the energy-environment field, the United Nations Development Programme appointed him as part-time adviser to its Administrator in the fields of energy and sustainable management of natural resources (1994-99).

Dr Pachauri's wide-ranging expertise has resulted in his membership of various international and national committees and boards. At the international level, these include his positions as Adviser, International Advisory Board, Toyota Motor Corporation, Japan, April 2006 onwards, Member, Board of the International Solar Energy Society (1991-97); Member, World Resources Institute Council (1992); Chairman, Work Group A, World Energy Council Committee on Developing Countries (1993-95); President and Chairman, International Association for Energy Economics, Washington, D C (1988, 1989-90, respectively); and President, Asian Energy Institute (1992 onwards).

The committees of the Government of India to which he has contributed include the Economic Advisory Council to the Prime Minister of India (July 2001 to April 2005); Panel of Eminent Persons on Power, Ministry of Power; Delhi Vision - Core Planning Group; Advisory Board on Energy, reporting directly to the Prime Minister (1983-88); National Environmental Council, under the Chairmanship of the Prime Minister (November 1993 and April 1999); and Oil Industry Restructuring Group, 'R' Group, Ministry of Petroleum and Natural Gas (1994).

Dr Pachauri has also been associated with academic and research institutes. He is on the Board of Directors of the Oil and Natural Gas Corporation Ltd (June 2006) and also on the Board of Directors of the NTPC Limited (January 2006). He was on the Board of Directors of the Indian Oil Corporation Ltd (January 1999 to September 2003); Board of Directors of GAIL (India) Ltd. (April 2003 to October 2004); National Thermal Power Corporation Ltd (August 2002 to August 2005); the Board of Governors, Shriram Scientific and Industrial Research Foundation (September 1987); the Executive Committee of the India International Centre, New Delhi (1985 onwards); the Governing Council of the India Habitat Centre, New Delhi (October 1987 onwards); and the Court of Governors, Administrative Staff College of India (1979-81). In September 1999, he was appointed Chairman of the Darjeeling Himalayan Railway Heritage Foundation. Earlier, in April 1999, he was appointed Member of the Board of Directors of the Institute for Global Environmental Strategies, Environment Agency, Government of Japan, for three years. He is President, India Habitat Centre September 2004 onwards.

Dr Pachauri taught at the School of Forestry and Environmental Studies, Yale University, USA, as a McCluskey Fellow during 6 September-8 December 2000. He has also authored 23 books and several papers and articles.

He is a member of the Board of Trustees of the India International Centre, and Vice President of the Bangalore International Centre, and he was the President of the India Habitat Centre, New Delhi during the period September 2004 to September 2006.



Section Chair Mr.A.K.Hazarika welcoming Dr.M.Rashid Khan, Saudi Aramco,-SPE Distinguished Lecture

The section highlights and activities were presented. Video clippings from Annual Technical Conference and Exhibition 2006-SPE President's Luncheon on award winner sections (that included New Section as Award Recipient) were also shared with the audience and that attracted a big applause from the house. The section Newsletter SPENDSEC News was released by the Section Chairman- Mr. A. K. Hazarika ,Director (Onshore), ONGC and Dr. M. Rashid Khan, SPE Distinguished Lecturer.

The meeting was well attended by over 65 members and distinguished guests from several companies and consultants. Mr. S.K. Patra, Director (E&D) Oil India, Mr. Y.B. Sinha, Former Director(E) ONGC, Mr. Naresh Kumar, MD, Jindal Drilling , Mr. A.K. Sood, Chief Well Services and Mr.A.K. Mandal, Former Chief Well Services were present amongst several top executives from the Industry and Academia including Student Chapter members from IIT Delhi.The activities of New Delhi Section were appreciated by one and all who were present.

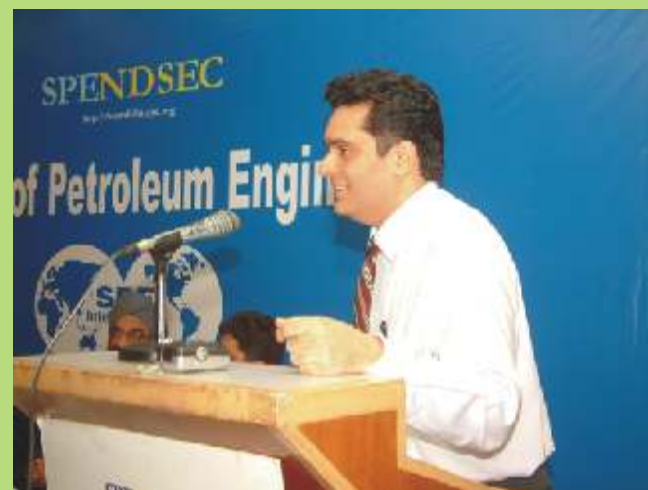
SPE monthly technical deliberation by Dr. Rashid Khan under SPE distinguished lecture series, could not have been better timed as surge in hydrocarbon demand is making economic sense to have a re-look on heavy crude reserves. Importantly, this form of crude also signals a high pollutant

regime that this industry is required to handle in a manner that adequately satisfies statutory requirements.

We may be out of sync if we think that all crude are alike in the developing economy. We have seen that problems of metropolis do not distinguish the state of economy. In recent times, there had been large scale transition of transport systems in the cities across the world to cleaner fuel. It was really not important whether it was Delhi or London. These crowded cities – whether in developing or developed part of the world – are expected to aspire to go for cleaner crude.

Dr. Khan had a brilliant solution in his philosophy of looking at the whole gamut as an opportunity rather than being a problem to the industry. No doubt, petroleum industry has been at best a “miser”, when it comes to research or investment in research as compared to other industries. But, it appears that oil industry has always been smarter in bringing about “out of the box” solutions. He seemed optimistic that the current lots of oil professionals will carry on with the precedence by innovating and providing solution to the problems in a manner that would not be limited by research inadequacy.

In the back drop of the fact that industry spends only about 20 % of the oil money on refining, he forwarded few key ideas that made sense at the ground level. First, the



Mr. Anil Swani, Scholarship Chair giving a 'Vote of Thanks'



An attentive Audience



Mr. Hazarika presenting a Certificate of Appreciation to Dr. Rashid Khan

possibility of premium on cleaner fuel may not be a far fetched idea. There could be legislative or enforcement issues and the same can always be managed to encourage use of cleaner crude, when we are left with greater percentage of heavy crude in the world supply pool in the face of dwindling sweet supply.

He pointed out that world refining infrastructure is largely outdated and may not provide answer to this impending situation, which is essentially techno-economical in content. Blending of crude is not a solution as each crude has a separate signature, unique identity and processing technology. He advocated that upstream industry should come forward with ideas and innovations that could break the stalemate between demand and supply in terms of crude quality. In this context, he pointed out that oil majors are thinking hard for the ways to sweeten the crude near the point where it is produced.

Refining in reservoir might be too stretched an idea, but on site quality improvisation may be not.

The audience was overwhelmed with the relevance of the discussion and, of course, the eloquence and insight of the speaker. The relevance of the discussion was brought to the fore with the intense debate that followed when Section Chair-Mr A.K.Hazarika presented the account of the presence of chlorine in North Gujarat crude. He elaborated that this problem is unique to North Gujarat crude even though the influx (chemicals) to the reservoir is same in the fields of both North and South Gujarat. Dr. Khan pointed out that the constitution of crude in two cases may be playing a role with the influx (chemicals), resulting into presence of chlorine selectively in the crude of North Gujarat only.



L to R- Mr.A.K. Sood, Chief Well Services, ONGC, Mr. Y.B. Sinha, Former Director(Exploration), ONGC, Mr. S.K.Patra, Director (E&D), Oil India Limited and Mr. A.K. Mandal, Former, Chief Well Services, ONGC.

FORTHCOMING REGIONAL AND INTERNATIONAL EVENTS

Dates	Meeting	Location
5 - 7 Dec 2006	Tight Gas Completions and Best Practices - ATW	Colorado USA
21 - 24 Jan 2007	Water and Gas Shut-Off in the Gulf States - ATW	Muscat, Oman
28 - 31 Jan 2007	Flow Assurance - ATW	Langkawi, Malaysia
29 - 31 Jan 2007	Hydraulic Fracturing Technology Conference	Texas USA
20 - 22 Feb 2007	SPE/IADC Drilling Conference and Exhibition	The Netherlands
26 - 28 Feb 2007	Reservoir Simulation Symposium	Houston, Texas USA
28 Feb-2 Mar 2007	International Symposium on Oilfield Chemistry	Houston, Texas USA
5 - 7 Mar 2007	E&P Environmental and Safety Conference	Galveston, Texas USA
11 - 14 Mar 2007	Middle East Oil & Gas Show and Conference	Kingdom of Bahrain
14 - 16 Mar 2007	Offshore/Onshore Heavy Oil Operations - ATW	Veracruz, Mexico



Salaam India!

by Tony Thomas

To those who don't know what the YP means it stands for Young Professionals working in the Oil and Gas Industry and is an initiative championed by the SPE 2005 President, Giovanni Paccaloni. The initiative was aimed at young professionals who could be IT engineers, HR people, accountants, logistic and purchase personnel and of course geologists, geophysicists and petroleum engineers, all whom are working in the energy industry, are under the age of 35 and have less than 10 years of experience.

Why such an initiative? Isn't it patently evident that the youth are the future, the leaders of tomorrow, so what better step forward than to get the future leaders groomed at an early stage on matters of technical skills, inter personal skills and networking among themselves so that they can be better leaders capable of steering our industry through ever increasing challenges.

So to reiterate the SPE YP are the young lot of SPE members who would collaborate to hold events that pertain to satiating YP curiosity with regards to how the industry works, the impact the energy industry has on the world, who are the other people working in the industry and how can we best get the senior members to mentor and train the YPs so that they don't have to reinvent the wheel and can fast track to their goals based on the experience and advice of seniors who have already been there and done that!

So what does this need? All it requires are young people with a lot of energy are professional and who are willing to volunteer their efforts towards realising the above mentioned goals for the benefit of themselves and their fellow workers irrespective of country, organisation or discipline. There are already a lot of people who are ready to championing the efforts of the YPs around India and if you wish to join in then please contact them and get active. As listed below we have:

1. Manish Choudhary for Ahmedabad and around (manish_netguy@yahoo.co.uk)
2. Chitwan Garg for Mumbai (cgarg@bombay.oilfield.slb.com)
3. Andy MacGregor for New Delhi and around (macgregor2@new-delhi.oilfield.slb.com)
4. Abhishek Anchliya (abhishek_anchliya@yahoo.co.in)

The above are the people who have volunteered to spearhead the effort for the YPs in their respective SPE sections. But there are still a couple of SPE sections that still are in need of volunteers to stand up to the challenge of initiating it.

SPE YP has spread and there are currently 44 YP sections across the globe and this number is growing fast. Add to this the initiatives of SPE YPCC (Young Professional Coordinating



Committee, has been set up to develop initiatives to engage the YPs of our industry and to support the growth of YP sections worldwide), the ALP (Ambassador Lecture Program), the YPN (Young Professional Network, a bulletin board where you can discuss and challenge ideas) and TWA (The Way Ahead, quarterly SPE edition totally by YPs) more details of each initiative is well documented on the SPE website (www.spe.org) under the young members section.

What this tells us is the need for YPs across the globe to come together to share knowledge, ideas, technologies, to network among themselves, to get mentored and to rise up to the challenges that our industry is facing and will face in years to come. What I ask is where is India in the midst of all these?

Dr. APJ Abdul Kalam, the Indian President in most of his speeches, says that he believes in the power of the youth...I second that!

The previous Indian O&G minister Mr. Mani Shankar Aiyer said that India could be like the Saudi Arabia of the world in the coming years, with regards to Oil and Gas reserves, if its challenges are understood, innovation and technologies are rightly implemented to tackle these challenges....And for this I think that it requires YPs to come together, to collaborate and to get active when it comes to knowledge sharing, discussing new technologies, developing their soft skills and inter personal skills.

Sons and daughters of India...your motherland needs you!

All this written here would be confined to the limbos of this newsletter, read and then forgotten...well not so, unless it ignites a fire in your hearts, and a mission to carry and spread the flame to millions across India. To rise up to the challenge, to be at the helm as India moves forward to take its rightful position among other nations as an emerging economy!

Young Professionals in India...Awaken and Arise! India needs you!



Tony Thomas
Deputy Editor-in-Chief
The Way Ahead 2006-07
Member
Young Professional Coordinating
Committee 2006-07

(Tony is currently working as a Senior Reservoir Engineer with Schlumberger in Muscat, Oman.)

SPENDSEC Tentative Meetings Calendar 2006-07

DATE	EVENT	TOPIC	SPEAKER	VENUE	SPONSORS
13 October, 2006	Annual General Meeting	Annual Report 2006-07 Board Formation		Jacaranda 1, India Habitat Centre	SPENDSEC
November 03, 2006	Section Technical Meeting	Crude Value Enhancement	Rashid Khan, Saudi Aramco <i>SPE Distinguished Lecturer</i>	Magnolia, India Habitat Centre	Schlumberger
December 11, 2006	SPE Section Special Meeting	Challenges for Industry- Energy and Climate Change	Dr.R.K. Pachauri, Director General, TERI	Windsor, Le Meridien	ONGC making tomorrow brighter
January 2007	Section Meeting at Student Chapter	Career Opportunities in E&P Sector	Anil Swani, Schlumberger	IIT Delhi	SPENDSEC
February 3, 2007	Social Get Together			Silver Oak Lawns, India Habitat Centre	PremierOil
March 13, 2007	SPE Section Anniversary Meeting	Wellbore Quality Characterization for Drilling and Casing Running in Challenging Wells	Colin Mason, BPSPE <i>Distinguished Lecturer</i>	India Habitat Centre / Taj Palace (Tentative)	OIL India Limited
April 27-28, 2007	Technical Meeting / Symposium	How Deep Can You Go and What Challenges Lie Ahead?	Dr. Abou- Sayed, BPSPE <i>Distinguished Lecturer</i>	TBD	TBD
May 2007	Section Technical Meeting	TBD	TBD	TBD	Cairn
July 2007	Section Technical Meeting	TBD	TBD	TBD	TBD
August 2007	Section Technical Meeting	TBD	TBD	TBD	TBD
September 2007	Annual General Meeting	Annual Report, 2007-08 Board Formation	TBD	TBD	TBD

TBD- To be decided. All Months in Red offer Sponsorship / Speaker Opportunities. Please contact Tim O'Sullivan, Sponsorship Chair for sponsoring SPE New Delhi Section meetings (tim.osullivan@cair-energy.plc.uk). For Speaker Opportunity, please contact Ian Galbreath, Programme Chair (igalbreath@new-delhi.oilfield.slb.com)

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(1OCTOBER-30SEPTEMBER)

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Calls for Papers/Paper Proposals

Have an idea for a technical paper? Opportunities to submit paper proposals for consideration by the Program Committee for the following SPE conferences are now open.

Meeting	Location	Meeting Dates	Proposal Due Date
Petroleum Engineering and Reservoir Management SPE Bergen Section One-Day Seminar	Bergen, Norway	18 Apr 2007	26 Jan 2007
SPE Aberdeen/WSCA Well Construction Forum	Aberdeen, Scotland UK	24 - 25 Apr 2007	30 Nov 2006
DEVEX - European Production and Development Conference on Subsurface Techniques for Maximising Recov	Aberdeen, Scotland UK	15 - 16 May 2007	31 Jan 2007
International Oil Conference and Exhibition in Mexico	Veracruz, Mexico	28 - 30 Jun 2007	12 Jan 2007
Offshore Europe Aberdeen,	Scotland UK	4 - 7 Sep 2007	8 Jan 2007
Asia Pacific Health Safety Security Environment Conference	Bangkok, Thailand	10 - 12 Sep 2007	10 Jan 2007
SPE/IADC Middle East Drilling and Technology Conference	Cairo, Egypt	22 - 24 Oct 2007	24 Nov 2006
Asia Pacific Oil and Gas Conference and Exhibition	Jakarta, Indonesia	30 Oct - 1 Nov 2007	5 Feb 2007
SPE Annual Technical Conference and Exhibition	Anaheim, California USA	11 - 14 Nov 2007	26 Feb 2007
International Petroleum Technology Conference	Dubai, UAE	4 - 6 Dec 2007	5 Feb 2007

*For more information please visit : www.spe.org

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