



New Delhi Section
http://newdelhi.spe.org

SPENDSEC

Volume 2 • Issue 2 • September-October 2006

NEWS



Chairman's Corner

Dear Member,

This is my first address to you all after I took over as Chairperson for the year 2006-07.

At the onset, I must compliment the past executive committee, all members, distinguished speakers and corporate sponsors whose collective contribution in the short span of one year made us one of the best sections in the world, resulting in being awarded the highly coveted "SPE 2006 President's Award for Section Excellence". On behalf of the Executive Committee, I dedicate this award to you all.

Our section is in its second year of inception but the hard work & sincere efforts are needed to ensure that we go forward from here in imparting / sharing knowledge and bring value to the Section. We need to ensure that meaningful technical meetings, seminars and workshops are organized regularly & effectively. Keeping in view the past performance, aspirations are high and the new team has to work very hard to achieve that level and to sustain it.

Globally, Society of Petroleum Engineers has lined up several conferences / seminars on present day issues like Hydraulic Fracturing Technology, Reservoir Simulation, Oilfield Chemistry, Reservoir Surveillance Management, E&P Environmental and Safety & Hydrocarbon Economics etc. Special focus is being given to joint efforts of SPE with IADC & EAGE to meet many newer challenges.

Our New Delhi Section is also planning several new in this year's activities. We have prepared a draft annual calendar which will shortly be finalized and intimated to you all. Thrust will be on the challenges being faced in the operations which require solutions through new technology / experience. I am sure we will continue to be able to contribute in the future also.

Our section will be benefited by the visit of three SPE distinguished lecturers. The first in this series is scheduled for 3rd November 2006 wherein Mr M Rashid Khan of ARAMCO will be speaking on Crude Value Enhancement. An Emerging Opportunity for Innovations in E&P. I encourage all section members to actively participate in this meet to extract maximum benefit out of it.

To broaden the horizon, SPENDSEC would like to have more participation from individuals, groups and companies involved directly or indirectly with petroleum industry.

A.K. Hazarika

New Chairman of SPENDSEC SPE New Delhi Section Sets higher goals

Annual General Meeting Report

Sunil Kumar Singh, Member SPENDSEC

Director (Onshore) ONGC, Mr A K Hazarika takes over as new Chairman of SPENDSEC – SPE New Delhi Section – Sets higher goals

The annual general body meeting of SPE, New Delhi section on 13th October, 2006 marked a new phase of its existence. Riding on the recent international recognition, members



Ian Galbreath, Schlumberger- Program Chair of SPE New Delhi welcoming A K Hazarika, Director (Onshore), ONGC as New Chairman 2006-07 of SPE New Delhi Section.

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In Response to SPENDSEC Activities



Congratulations to Mr. A. K. Hazarika for taking over as Chairman of the SPE New Delhi Section.

It is heartening to note that senior officers of Oil sectors are taking interest in international professional bodies.

My best wishes to Mr. Rahul Bali for continuously enlarging the activities of New Delhi Section.

Regards.

R.K. Vij
Sub-Asset Manager, Geleki, Assam
ONGC

SPENDSEC welcomes our new / reinstated members:

Ramendra Sinha, Section Membership Chair 2006-07

New / Reinstated

N.M. Borah — *Director(Operations), Oil India Limited*

Shailendra Jain — *Chief Engineer (Elect), Oil and Natural Gas Corporation*

S Dasgupta — *Superintending Engineer, Oil and Natural Gas Corporation*

Alok Kumar Gupta — *Chief Manager, Oil and Natural Gas Corporation*

Sharad Terway — *Superintending Engineer, Oil and Natural Gas Corporation*

K K Joshi — *Superintending Engineer, Oil and Natural Gas Corporation*

Sandeep Bahl — *Superintending Engineer, Oil and Natural Gas Corporation*

Rajiv Saxena — *Superintending Engineer, Oil and Natural Gas Corporation*

November Technical Section Meeting

Friday, November 3, 2006

Crude Value Enhancement: An Emerging Opportunity for Innovations in E&P

M. Rashid Khan
ARAMCO,
Intellectual Asset Management
SPE Distinguished Lecturer



Venue :
Magnolia, India Habitat Centre,
Lodhi Road,
New Delhi-110001

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

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Section Officers of SPENDSEC.

were upbeat about the future and appointed more than dozen officials to see the group charter new goals. The sheer magic of coveted SPE's 2006 President's award for the group has been something that every body wanted to let it sink, but slowly.

The new SPE New Delhi Section Chairman, Mr. A.K. Hazarika, Director (Onshore), ONGC, set the motion in the right earnest without wasting a second and he did it with an impressive recount of India's energy need in the time ahead and the role that SPE can play in attracting talents, technology and organizations to meet the challenge. He visualized a great deal of technological and managerial initiatives in the field of heavy oil field development in India. He was touching ground realities without a rancor and in so many simple words that it appeared SPE section is not going to look back, but to pitch higher and higher.



A K Hazarika delivering his acceptance speech as new Chairman of SPE New Delhi Section

It was heartening to see that organizations big or small were all truly interested to carry the momentum forward. The SPE's General body named Mr. N.M.Borah, Director (Operations) - OIL, as Section Chairman Elect for 2007-08. During the meeting, Annual Report was presented by Mr. Rahul Bali, Section Secretary. General body also adopted the annual finance as presented by Mr. Ramendra Sinha, Section Treasurer.



New Delhi Section Chair 2006-07 Mr. A.K. Hazarika dedicating the "2006 SPE President's award for section excellence" to section members.

New Delhi SPE section is incidentally destined to grow as many new organizations are setting their offices and old ones are relocating themselves in New Delhi and NCR. The small had been beautiful in the past under the leadership of Section Chairman, Mr. N.K.Mitra, Director (Offshore) ONGC. The big will also be beautiful under the leadership of new Chairman, Mr. A.K. Hazarika – full of purpose, effectiveness and as a melting hot pot of technological and managerial skills, which is SPE's core character.



Ian Galbreath, Schlumberger- Program Chair of SPE New Delhi welcoming N M Borah, Director (Operations), OIL as Chairman Elect 2007-08 of SPE New Delhi Section

Sameer talks about bottom-hole fluid analysis

August Section Meeting Report

Sunil Kumar Singh

Oil industry thrives on knowledge and assimilation of new technology and application seamlessly to field conditions in the far fetched corners of the world in no time. Sameer Joshi account of bottom-hole fluid analysis epitomized just this very nature of high end oil technology. It is no wonder that spectroscopy is emerging as a very powerful analytical tool to gain information about reservoir fluid and that too in the bottom hole condition. We all know field development has critical dependence on fluid characteristics. As such, accuracy and right information about well fluid has tremendous economic worth and value in optimizing production.



As elaborated by Sameer, the infra-red or near visible light spectroscopy in relation to absorption peaks for different fluid types is being considered a reliable technology for fluid analysis. The very fact that absorption can be related with optical density of fluid types, which in turn can be related to the compositional aspects of well fluid, forms the basis of Down Hole Fluid Analysis (DFA) technology. This technology is critically advantageous in identifying oil-gas contact, fluid types and many other aspects of reservoir fluid in the vicinity of the well bore.

Down-hole pH determination has far reaching implication in managing pressure maintenance and reservoir sweep measures. These advancements, as a matter of fact, represent industry response to the need to deal with difficult (viscous) fluid types and thin layer reservoir development. Most importantly, industry wide paradigm shift for real time down-hole measurements, finds DFA a suitable technology that is going to benefit planners and developers alike and instill investors with more confidence and assurance in terms of reservoir performance.

The insight into DFA technology presented by Sameer was appreciated by large numbers of society members and guests, who attended the technical meeting.

FORTHCOMING REGIONAL AND INTERNATIONAL EVENTS

| Dates | Meeting | Location |
|-------------------|---|----------------------|
| 5 - 8 Nov 2006 | Abu Dhabi International Petroleum Exhibition and Conference | Abu Dhabi, UAE |
| 5 - 8 Nov 2006 | Deepwater Technology - ATW | Hong Kong, SAR China |
| 13 - 15 Nov 2006 | IADC/SPE Asia Pacific Drilling Technology Conference | Bangkok, Thailand |
| 26 - 29 Nov 2006 | Integrated Asset Management - ATW | Goa, India |
| 27 - 30 Nov 2006 | Brazil Onshore 2006 - IBP/SPE Brazil Section | Natal, Brazil |
| 4 - 7 Dec 2006 | Water Management - Mixing Oil With Water - ATW | Moscow, Russia |
| 5 - 7 Dec 2006 | International Oil and Gas Conference and Exhibition | Beijing, China |
| 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 |

SPENDSEC 2006-07 Executive Committee Profile

A.K.HAZARIKA

Section Chair 2006-07



Mr Ajit Kumar Hazarika a graduate in Mechanical Engineering started his career with Oil India Ltd. Subsequently he joined Oil & Natural Gas Corporation in 1976 as Graduate Trainee. With his diverse experience in Cementing & Drilling he has contributed in the form of providing solutions & several innovative ideas for improving quality of cementation of oil and gas wells. He bagged several awards including "Best Drilling Engineer of the year" in 1989.

He has been associated member of Advisory Committee of IDT (Institute of Drilling Technology) of ONGC, a prestigious drilling Institute. His varied experience and contribution in various leadership roles during his illustrious career have been highly appreciated and acknowledged within the company and petroleum industry at large. He has authored / co-authored several technical papers. His contributions in different assignments have been well recognized. Since 2004, he is a member of the board of Directors of ONGC as Director (Onshore) responsible for all onshore operations.

NILADRI K MITRA

Past Section Chair 2005-06, SPENDSEC



N.K.Mitra, a Petroleum Engineer from ISM, Dhanbad, India, is the Director (Offshore) of ONGC and also serves on Board of several other companies in India. In last 33 years he has served ONGC in various technical, Managerial & administrative capacities.

His efforts towards maximizing production from existing fields through new technologies and redevelopment exercises has resulted in improvement in production from declining and matured Brown field like Mumbai High. An active member of SPE since his student life, he has served on the Board of SPE Mumbai Section in various capacities over the years. He is the Founder Section Chairperson of SPE New Delhi section.

N.M. BORAH

Chairman Elect 2007-08



Mr. N.M. Borah is a petroleum engineering graduate from Indian School of Mines, Dhanbad, has over 25 years of experience in oil and gas exploration and production activities. He did his PG studies with specialization in Petroleum Prospecting and Reservoir Evaluation from Norwegian Institute of Technology, Trondheim.

Currently a member of the Board of Oil India Limited as Director (Operations), he is responsible for the company's exploration, development, resource management, oil, gas and LPG production and pipeline business in North-east India. He has played a key role in accelerating hydrocarbon exploration in the geological frontier areas in the North-east India. Among his interests, expediting gas monetization in the North-east and revitalization of old depleting oilfields are of special significance.

Mr. Borah is also engaged actively in strategic and business development for OIL including E&P activities overseas. He has travelled widely to different parts of the world representing his company and the Government of India in various technical seminars, conferences and business meetings. He is also credited with a number of papers presented in national and international conferences.

IAN GALBREATH

Program Chair, SPENDSEC



Ian Galbreath is Oilfield Services Marketing Manager for Schlumberger in India and has been a member of the SPE for over 24 years. Ian holds Master Degree in Psychology and Bachelor's Degree in Science from the University of Aberdeen United Kingdom. He started in the Oil and Gas Industry in 1979 with Lasale Engineering and fulfilled a number of roles rising to the level of Managing Director of the company. He was associated with pioneering a number of innovative contracting models. Prior to acquisition of Camco by Schlumberger, he was VP Sales and Operations in North and South America. He has fulfilled a number of roles with Schlumberger as Global Account Director for Occidental and Account Manager for the Well Completions and Productivity Business prior to moving to India in 2004.

RAMENDRA SINHA

Membership Chair, SPENDSEC



Ramendra Sinha a Chemical Engineering graduate, is serving in ONGC as Superintending Engineer (Production) and has experience of 22 years in offshore & onshore Well Services operations, having started as Work over Engineer. He has been actively associated with SPE since 1992 and is founder Section officer of New Delhi Section. He is also serving on Editorial Team of the section newsletter of SPENDSEC News.

RAHUL BALI

Secretary & Webmaster SPENDSEC



Rahul has over 17 years of experience with National Oil Company of India, ONGC primarily in Production Discipline having varied exposure to Offshore Exploratory Well Testing, Completion, Stimulation and Workover. He holds a Master degree in Management from MDI Gurgaon-a premier Business School in India, and a Bachelor degree in Mechanical Engineering from REC Jaipur. At MDI, he was awarded Finance Minister's Gold Medal. Has been quite an active SPE member and got many recognitions -Grand Prize Winner Award at ATCE 2002, San Antonio and Century Club award at ATCE 2003, Denver. He was instrumental in organizing New Delhi Section and was elected its founder Secretary. He is currently serving on SPE International Membership Committee as its Chairman - 2007. After his tenure on Deputation to ONGC's Downstream Arm - MRPL, as Chief Engineer (P), Marketing, he is now part of Corporate Marketing Group of ONGC.

GAUTAM SINHA

Treasurer



Presently working as Adviser (Production) at Directorate General of Hydrocarbons, New Delhi, under Ministry of Petroleum and Natural Gas, Mr. Gautam Sinha joined the Well Services Group, ONGC at Sibsagar, Assam in 1987 where he worked in the Workover Rigs in various positions till 1991. After this he has experience of 13 years in offshore operations of Workover apart from looking after all sorts of Planning and Co-ordination jobs related to workover. He is also Faculty Member for imparting training courses on "Offshore Workover and Well Completion". He joined DGH in 2004 on deputation from ONGC. Mr. Sinha graduated in Mechanical Engineering from Jadavpur University, Kolkata and is an active member of SPE since 1996.

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DR MICHAEL KINGSFORD JACKSON

Director

BSc and PhD in Chemical Engineering from University of Exeter, UK. Oil industry professional with 27 years experience in the industry. Currently Country Manager for UK independent Exploration and Production Company, Premier Oil plc since 1st March 2006, based in India. Joined Premier Oil in 1998 and ran the UK/Europe Business unit and later the combined UK/West Africa portfolio. After post grad studies he joined Shell International for 6 years in Holland and UK working in operations and as a reservoir engineer. He has held a variety of commercial and operational positions in British Indies, Enterprise Oil (UK) and JXX Oil and gas (Ukraine) between 1989 and 1998. Married to Janet and have son Ben living in Delhi and daughter Harriet at University in Aberdeen, UK. Mick Enjoys tennis, golf, music and wine tasting.



HPS AHUJA

Director & Member Program committee

Mr. HPS Ahuja, presently working as Chief Engineer (Production) in ONGC, is basically a graduate in Mechanical Engineering from Bombay University has over 23 years experience in the oil & gas field. He also holds a Post Graduate Diploma in Management Studies from Bombay University. He is a very active member of the Society of Petroleum Engineers.



He has also worked in the International Division of ONGC, "The ONGC Videsh Limited". His contribution as Team Lead for the Business Warehouse and Portal modules of Project ICE, a mega ERP project implemented in ONGC, the largest implementation in the World. Presently, he is involved in devising strategies for evacuation of thick waxy crude. He has been actively involved in the evaluation, benchmarking of Crude and negotiations with the sellers formulating the Crude Oil Sales Agreements and the MOU's.

DR P. GOPALAKRISHNAN

Director & Student Chapter Liaison

Dr P. Gopalakrishnan has over 30 years of experience in Reservoir Management and Optimization for companies such as ONGC and KOC. He has Ph. D. degree from the Institut National Polytechnique, Toulouse, France with basic degree in Petroleum Engineering from ISM Dhanbad, India. Currently providing technical consultancy on areas such as hydrocarbon potential of new exploration blocks, optimized work-plan for exploration blocks, review of the reserves estimation and categorization, development plans for newly discovered oil and gas fields, underground coal gasification. A founder Section Officer of SPE New Delhi Section, he has been instrumental in organizing Student Chapter at IIT Delhi.



SUNIL KUMAR SINGH

Newsletter Committee Chair

B.Tech in Petroleum Engineering from Indian School of Mines, Dhanbad (1985). Twenty one years of E&P experience in drilling, workover and production disciplines. Key responsibilities included field implementation of high end technologies like massive hydraulic fracturing, water-shut off, acidization and surfactant treatments. Intense exposure in designing and optimizing well performance with thin beds, horizontal drilling and real time monitoring. Authored manual titled "Advances in stimulation technology" and presented technical papers on different forums. A regular faculty with Institute of Management Development, Dehradun and a Microsoft certified professional in programming and data base management. Currently with Joint Venture Operations Group, responsible for managing producing assets for ONGC in eastern and western offshore.



TIM O'SULLIVAN

Sponsorship Committee Chair

Tim has more than 25 years experience in the petroleum industry, in both geology and petrophysics, principally working in Asia and Australia. Tim has been a member of SPE for over 15 years and is honoured to be on the sponsorship committee of the Indian SPENDSEC. He has been in India for four years and is working for the very dynamic Cairn Energy India. Tim says "I see India as being one of the most exciting countries to work in. The economy is expanding rapidly and there is a great energy and enthusiasm amongst the community. I hope that we can bring that same energy and enthusiasm into the SPENDSEC"



ANDY MACGREGOR

Young Professional Liaison

Andy MacGregor graduated from Birmingham University in the UK with a degree in Physics, followed by an MSc in Geophysics from the University of Leeds. Mr MacGregor spent the first six years of his career as a geophysicist with BP in the UK and then Alaska where he worked as a development geophysicist on the Prudhoe Bay field.



He joined Schlumberger in 1992 and has worked in a variety of locations including the UK, the USA and now India. His roles in Schlumberger have been many and varied including four years spent as a petrophysicist with Schlumberger Data and Consulting Services specializing in geomechanics and wellbore stability. Other responsibilities have included internal training, product line management and product marketing. Prior to moving to India Mr MacGregor was the Product Champion for Schlumberger's commercial geophysics software products. He is currently manager for the Schlumberger software products business in India and is living with his family in New Delhi.

ROBERT BREWIN

Technology Transfer Chair

Robert Brewin, Technology Transfer Chair, has recently left one of India's leading CBM drilling contract to return to his roots of Advanced Drilling Technologies in mainstream oil and gas. While he explores opportunities in India to trade technology for equity in value added plays, he is practicing what he preaches as Drilling Supervisor of an advanced CTU-UBD campaign in the UAE on a rotation basis. Robert is an enthusiastic supporter of the SPE and is proud to be part of the SPENDSEC section.



AJAY DASHORE

Publicity Chair

Ajay Dashore is serving in ONGC as Superintending Engineer (Production) and has over 17 years of experience in offshore and onshore production sites of ONGC. He holds a Bachelor's Degree in Chemical Engineering from Kanpur University.



He has worked in process operations of offshore production platforms in Mumbai High Oilfield, Uran plant and ERP implementation. Being a DNVI Accredited Auditor he was instrumental in implementation of International Safety Rating System in offshore process platforms. He has also worked for UOP LLC as Process Engineer in Western Desert Gas Development project in Egypt and Indonesia and was associated with first Separex Membrane based gas processing plant in Middle East. Currently he is working as core team member of ICE Project which is responsible for SAP implementation in ONGC. He is also serving as a member of the Editorial Team of the section newsletter of SPENDSEC news.

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2006 SPE PRESIDENT'S AWARD FOR SECTION EXCELLENCE- A Rare Honour for SPE New Delhi Section - SPENDSEC



New Delhi section, SPENDSEC, has probably created history by winning the coveted "2006 President's award for Section Excellence" in the very first year of its establishment. This award was presented on September 27, 2006 during the President's Luncheon at the Annual Technical Conference, San Antonio, Texas USA. The sections for this award are judged on dissemination of technical information, membership development, outreach and community involvement, and other criteria.

It was not very long ago when a few professionals in Petroleum Industry came together to propagate the idea of having a section of Society of Petroleum Engineers in New Delhi. We had our Kick off meeting in December 2004.

Four section officers (Provisional) were entrusted with the job of section formation. Within three months of Kick Off meeting, New Delhi Section became an Official section - No. 173 of Society of Petroleum Engineers and received its Charter.

The First Year Journey:

Kickoff Meeting December 13, 2004

Establishment of SPENDSEC, March 13, 2005

First Formal Meeting, April 2005

Website Hosting, May / June 2005

SPENDSEC News-First Section Newsletter August 2005

Student Chapter Established at IIT Delhi, April 2006

SPENDSEC Family Get-together, May 2006
9 meetings, 11 Speakers and 6 Sponsors

We named our section SPENDSEC (an acronym for SPE New Delhi Section and pronounced as Spend 'Sec).

SPENDSEC:

SPEND a SEC to know about our Industry

SPEND a SEC to know about the Society of Petroleum Engineers

SPEND a SEC to know about fellow professionals

Today SPENDSEC has become a well known name; we have created our own brand identity through our Meetings, our Newsletter-SPENDSEC News and our Website. We are looked upon as a model for the New Sections.

We thank all our Volunteers, Speakers, Corporate Sponsors, members and the SPE Middle East and Dallas Office Staff for their wholehearted support without which could not be achieved.



Rahul Bali, Section Secretary, accepting the Award from Dr. Eve Sprunt, 2006 SPE President on behalf of SPE New Delhi.



Crude Value Enhancement: An Emerging Opportunity for Innovations in E&P

M. Rashid Khan
ARAMCO, Intellectual Asset Management
SPE Distinguished Lecturer

Abstract:

With the global increase in demand for quality crude, there is increased need to convert lower quality crude into value added products. Historically, crude value enhancement and crude desulfurization are achieved in refineries. In fact, there has been a "brick wall" when discussing crude quality upstream of refining. The value of a crude is generally based on its sulfur content and its density. From refining perspectives, however, integrity of crude is also impacted by acid content and the presence of various additives, contaminants and metals. Integrity and consistency of crude oil streams are important to all parties from production to transport and refining. Nevertheless, achieving a reduction in sulfur, accomplished by various upgrading processes, can have most profound impact in terms of crude price. Relatively narrow differences in price between light and heavy crudes historically deterred the growth of appropriate upgrading technology. However, the sweeter and lighter oil production is declining. Therefore, the conversion of high sulfur crude is becoming increasingly more attractive. Technologies for upgrading heavy oils can be broadly divided into hydrogen addition or carbon rejection processes, although many other innovative solutions have been proposed in recent times. This presentation provides an overview of crude quality issues and the heavy oil upgrading technologies with aim to improve

crude quality. It will discuss upgrading in terms of technology type and the fundamentals involved. The improvements in the following crude properties can be achieved by an upgrading technology: sulfur, density, nitrogen, metals, acid contents etc. The discussion covers several compelling and innovative options and examples of opportunities, some of which can possibly be applied within E&P, in improving crude quality while addressing the traditional production issues.



Rashid Khan is a Specialist for Saudi Aramco providing leadership to capture, develop and commercialize Intellectual Properties. Highly motivated, innovative and versatile Intellectual Property Specialist and Energy Technologist, he has experience in both upstream and downstream technology areas. Rashid received Texaco's highest technical award for creativity, while employed with Texaco. Considered as an international expert in hydrocarbon processing, Rashid received American Chemical Society regional Research Award. While employed with US Dept of Energy, he championed the development and commercialization of an upgrading process. Rashid also served as a technical advisor to the US White House. He served as an adjunct professor for Vassar College, NY. He has 27 patent awards, published over 150 journal papers/presentations and authored/edited three books. He received Outstanding Achievement CRC Award in Chemistry. He is an editorial board member for "Energy Sources." He organized various national and international conferences. Rashid received Outstanding Service Awards from American Chemical Society. He received his PhD and MS in Energy & Fuels Engineering from Pennsylvania State University and received an MS in Environmental Engineering from Oregon State University.

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P.G. SUDHAKARAN

Continuing Education Chair



Project Coordinator for Qatar (OVL Operator) and Venezuela operations. Associated with the surface facilities design for Jufeyr field in Iran.

He graduated in Mechanical Engineering from Kerala University, has extensive experience in Offshore and Onshore oil field operations, processing, trouble shooting and de bottlenecking. Expertise in commissioning of production facilities etc. Has been a Team Leader in the on going Mumbai High Re-development Project in western offshore, working with international experts.

A B CHAKRABORTY

Publication Mentor



General Manager ONGC, is currently looking after all CDM Projects development of in ONGC. He joined ONGC in June 1975. He has worked in different areas including quality control, operations, maintenance, drilling, HSE & presently, Alternate Energy & Carbon Credits. He has considerable experience in HSE both at the regional & corporate level. He has developed procedures, guidelines, regulations besides addressed HSE organizational design related issues. He has presented 5 papers in the SPE HSE international conferences besides many more in the national/ international conferences. His core specializations are in the area of Environment, Safety, Occupational health & Energy. His academics achievements are: M.Tech. (Production Engg) from IIT Delhi, MBA Jamnalal Bajaj Mumbai, MSc Environmental Science from Kakatiya University, PG Diplomas in Environmental management, Environmental Economics & Diploma in Safety management from BSC London.

SPE Annual Technical Conference and Exhibition- My Experiences

Rahul Bali
Section Secretary

As a representative of the President's Award Winner Section I got an opportunity to present New Delhi Section's Achievements to the participants at the Annual Section Officers Membership Workshop held on September 24, 2006 at San Antonio. I had to rush directly from the Airport to attend this meeting. The workshop was attended by nearly 50 Section Officers and Committee members. During the informal interactions, the Section Leaders and Committee members shared the Best Practices. I also participated in the roundtable discussions during the latter part of the meeting.

I am honoured to serve as Chair of SPE International Membership Committee for the year 2007 and took over the charge from the Current Chair Mr. Bjorn Brekne of Statoil during the ATCE 2006.



International Membership Committee photo from the recent meeting and workshop held during ATCE.

Front Row- L to R- Randy Woods, ExxonMobil, Houston, Texas; Bjorn Brekne, Statoil, Stavanger, Norway (2006 Committee Chairman); Rahul Bali, ONGC, New Delhi, India (2007 Committee Chairman); and Osakwe Lawrence, Nigerian AGIP Oil Co., Port Harcourt, Nigeria.

Back Row- Sameh Macary, IPR Group, Cairo, Egypt; Darrell Howard, BP, Baku, Azerbaijan; Tom Walsh, PetroTechnical Resources, Anchorage, Alaska; John Cramer, Great Lakes Energy Partners, Hartsville, Ohio; Cameron Matthews, C-FER Technologies, Edmonton, Canada; Ali Al-Salem, Saudi Aramco, Dhahran, Saudi Arabia; and Brian Wiggins, SPE Sections Manager and Membership Committee Staff Liaison.



Award Winner Sections' Representatives with 2006 SPE President - Dr. Eve Sprunt

ATCE is the flagship conference of SPE and this year's conference focused on technology to meet future energy demand to discuss topics ranging from the future of heavy oil to emerging technologies in reservoir monitoring. With a theme of "Focus on the Future," the conference featured technical sessions with more than 500 papers on innovative technologies, case studies and best practices, and an extensive exhibition of more than 400 companies. Nearly 9,300 industry professionals attended the event. The Opening General Session on -Heavy Oil: From Rock Face to Fuel Pumps, discussed the global opportunities and the unique challenges that heavy oil presents. Panelists addressed the environmental and manpower challenges associated with heavy oil.

ATCE 2006 General Chairperson Clarence P. Cazalot Jr., president and chief executive officer of Marathon Oil Corporation, shared his insights on how to keep growing the oil and gas industry in his keynote address at the Chairman's Luncheon, citing the need for breakthrough technologies and strategies to meet the industry's manpower needs. Other special panel sessions addressed the latest on reserves and resources classifications, a global oil and gas supply study, and career issues for young professionals and for women. The exhibition also provided an excellent opportunity to learn about the latest technologies in E&P business. Before the President's luncheon I also attended the Annual Banquet. On September 27 SPE President Dr. Eve Sprunt gave "State of the Society" address and it was during this Luncheon she presented the Awards to all the winner sections. It was really an honour and memorable moment to accept the President's Award on behalf of New Delhi Section.



L-R Razik Shaikh, Chairman Northern Emirates, Ali H Al-Hasan, Regional Director, Middle East, Rahul Bali, Secretary-New Delhi Section and SPE 2006 President Dr. Eve Sprunt

ANNUAL REPORT 2005-06

Dear Member,

On behalf of the Executive Committee of the SPENDSEC i.e., SPE New Delhi Section, I take this opportunity to welcome you all to the Annual General Meeting. The first year has been quite an eventful year. Our section was able to make remarkable strides to catch up with the best sections across the globe.

The activities and the achievements of the Section during the year are brought out as under for your kind perusal & information.

Technical Dissemination

The section firmed up the Annual Meeting Calendar and other events and organized 11 meetings wherein 14 Speakers delivered lectures on variety of technical topics.

Topics and Speakers

1. Borehole Acoustics for Petrophysical Evaluation — *Vimal Saxena, Geophysist ONGC*
2. After 57 Years of Perforating, Does it Still Have a Future? — *Larry Behrmann, Schlumberger*
3. Deepwater Frontiers- The Future of India — *Dr Ravi Bastia, Reliance Industries Ltd*
4. Cost Effective Production Solutions — *Dr Said Mufarji, M/s MBPS, Oman*
5. Advances in a Sand Management System — *David Hawkes, M/s MBPS, Oman*
6. The Role of Technological Innovation in the Energy Sector — *Giovanni Paccaloni SPE 2005 President*
7. Chemical EOR: The Past Does It Have a Future? — *Sara Thomas, SPE Distinguished Lecturer*
8. Global Warming: Where Do We Stand? — *T.S. Ramakrishnan, SPE Distinguished Lecturer*
9. An Introduction to CBM: Drilling Technologies and the Indian Experience — *Robert Brewin, Country Manager, India, Mitchell Drilling international*
10. The Latest in Ways to Improve Asset Value Through Better Water Management — *Steve K. Cheung SPE Distinguished Lecturer, ChevronTexaco Energy Technology Company*
11. An Introduction to Clean Development Mechanism and Opportunities — *AB Chakraborty, General Manager, ONGC*
12. Heterogeneity, Geostatistics, Horizontal Wells, and Blackjack Poker — *Dennis Beliveau, Cairn Energy India Limited*
13. The Challenge of Waxy, High Pour Point Oil Production in Rajasthan — *Stuart Wheaton, Cairn Energy India Limited*
14. Reducing Risk and Uncertainty in Exploration and Development through Downhole Fluid Interpretation — *Sameer Joshi, Schlumberger*

Communications

Newsletter

The section started with the e-newsletter and named it SPENDSEC News. Subsequently, regular Newsletters were issued in hard copies also. Ten issues were brought during the year. In order to share information and knowledge, ONGC that has the maximum no. of members in India has hosted our section newsletter on ONGC Reports. This way we have very wide coverage of our newsletter and section activities.

Website

In the very first year of its formation a Website- <http://newdelhi.spe.org> of the section was hosted. The site is regularly updated to share the information through the electronic media. SPENDSEC became the first section in India to have its own website.

Beyond Section - Academia and Industry

We share Best Practices and ideas with other section leaders of the region through the Middle East council meetings and section officers' workshop. We also interact with other organizations as TERI (Tata Energy Research Institute) and invite their officers to our section meetings. We recently shared the best practices with other section officers at Annual Membership Workshop held during ATCE 2006 at San Antonio, Texas, USA.

Membership

Efforts were made to increase the membership through deeds i.e. by ensuring high quality technical meetings. However, in order to ensure that all members are regular participants, proper communication was maintained. Further, this section facilitated its members to pay in Indian Rupees and making Bulk Payments to the SPE International for all dues.

Our focus was primarily on retaining existing members and reinstatement and then recruiting new ones. Personalized mails and reminders were sent to all our members for the membership renewal. This method is quite effective in retaining our members. Welcome mail sent to all our new members and they were welcomed during the section meetings.

From a meager 51 members in March end 2005 we grew to 155, a phenomenal growth. We finished second in our group in the SPE Membership Contest.

Student Chapter

We were able to support a Student Chapter established at Indian Institute of Technology, Delhi a premier institute. Our section has sponsored the membership of all the Professors including Faculty Sponsor. We invite the Student Chapter President and Secretary, faculty advisor and other members as special guests to our Section Meetings and provide them an opportunity to share their views and concerns regarding the newly formed Chapter. We have assured all the support to the Student Chapter in its future activities.

Other Highlights

SPE 2005 President's Visit

We were privileged to have SPE 2005 President, Giovanni Paccaloni visit New Delhi Section on December 1, 2005. He also spared his time to address the students of IIT Delhi.

SPENDSEC Social Get together

To involve Spouse and Children in our activities SPE New Delhi section families were invited to attend the Social Get together held on 13th May 2006. There were lots of programmes for Children and Spouse including games.

Section's Best Practices shared

Our sections activities were shared with other regional sections at Doha and Bahrain. We presented all the issues of SPENDSEC News to SPE President 2006, Dr. Eve Sprunt.

Honours

- ? Dr. L.K. Khirsagar of MIT Pune, nominated by us, received the Regional Service Award for 2006.
- ? Rahul Bali, Secretary SPE New Delhi section was invited to serve as the Chairperson of International Membership Committee of SPE for the year 2007 - a first for any SPE member from India.
- ? SPE New Delhi Section created history by winning the prestigious "2006 President's Award for Section Excellence" in the very first year of its formation.

Acknowledgment

- ? Speakers
- ? Sponsors
- ? Volunteers

SPENDSEC acknowledges all the Speakers, Sponsors and Volunteers for their valuable support. As a gesture, SPENDSEC hosted the logos of all Sponsors on its website with hyperlinks to their respective websites.

We have many more plans for the members in future for which we need your whole hearted support. Thanks for your kind attention

Rahul Bali

Secretary
October 13, 2006

Section Financial Statement for Fiscal Year April 1, 2005 to March 31, 2006

ASSETS

Opening Balance

| | |
|--|-----------------|
| Cash & Equivalents | 5362.73 |
| Section Fund on Account with SPE Middle East | 8364.00 |
| | 14096.73 |

Income

| | |
|--|-----------|
| Interest & Dividend earned | 1264.38 |
| Sponsorship for: Meetings and special technical events and Newsletters | 397756.00 |
| Section Rebate from SPEI (US\$590) | 25960.00 |
| Local dues collected against membership dues for SPEI | 147846.00 |

Total Income **572826.38**

Total Assets **586923.11**

LIABILITIES

| | |
|--|-----------|
| Meetings and Newsletters | 387581.78 |
| Operating expenses (stationary, supplies, postage etc.) | 3713.00 |
| Membership Dues Sent to SPEI | 109064.40 |
| Membership dues Adjusted against section fund with SPE Dallas | 32180.54 |
| Other- Misc. includes Bank Charges, reimbursement of 2405, Lapel Pins (75\$ =3375 @45) | 8727.94 |

Total Expenses **548159.06**

RESOURCES AS ON MARCH 31, 2006

| | |
|--|----------|
| Cash & Equivalents | 47618.09 |
| Excess Dues collected to be refunded to members | -8450.00 |
| Section Fund on Account with SPE Middle East (US\$ -9) | -0405.00 |

Net resources as on March 31, 2006 **38763.09**

2005-06 SPENDSEC Board of Directors

| Position | Name | Company |
|----------------------------|-----------------------|-------------------------------------|
| Section Chairperson | Niladri K Mitra | ONGC |
| Programme Chair | Ian Galbreath | Schlumberger |
| Membership Chair | Suresh P Singh | ONGC |
| Secretary & Webmaster | Rahul Bali | ONGC |
| Treasurer | Ramendra Sinha | ONGC |
| Director | S.K.Patra | OIL |
| Director | Dr. P. Gopalakrishnan | Consultant |
| Director | S Roychaudhury | OVL |
| Director | Sunil Arora | ONGC |
| Publicity Chair | Ajay Dashore | ONGC |
| Liaison Young Professional | Ashok Kumar | ONGC |
| SPE Staff Liaison | Ross Davidson | Director of Operations, Middle East |



SECTION OFFICERS-NEW DELHI

SPE SECTION ROSTER FOR 2006-07

(1OCTOBER-30SEPTEMBER)

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SPENDSEC thanks all the Speakers and Corporate Sponsors during the year 2005-06

Speakers



Vimal Saxena
Geophysist ONGC



Larry Behrmann
Schlumberger



Giovanni Paccaloni
SPE 2005 President



Dr Ravi Bastia
Reliance Industries Ltd



Dr Said Mufarji,
M/s MBPS, Oman



David Hawkes,
M/s MBPS, Oman



Sara Thomas,
SPE Distinguished Lecturer,
PERL Canada Ltd.



T.S. Ramakrishnan
SPE Distinguished Lecturer,
Schlumberger-Doll Research



Robert Brewin
Mitchell Drilling
International



Steve K. Cheung
SPE Distinguished Lecturer
ChevronTexaco Energy
Technology Company



A.B. Chakraborty
ONGC



Stuart Wheaton
Cairn Energy India



Dennis Beliveau
Consultant
Cairn Energy India



Sameer Joshi
Schlumberger

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