

## CE Courses

SPG Biennial International Conference and Exposition –“Jaipur 2015” rolls out tomorrow, the 4<sup>th</sup> of December 2015.

Prior to the main event, 17 short technical courses, ‘Continuing Education’ or CE Courses were held on 1<sup>st</sup> & 2<sup>nd</sup> Dec at JECC and various locations in Jaipur.

These courses were delivered by eminent industry experts and academicians from across the globe, and experts with long professional experience in E&P industry.



The courses were attended by about 340 participants from various E&P companies in India. The courses covered a wide range of topics, right from seismic data acquisition, advanced seismic interpretation, reservoir characterization, development geophysics, geomechanics, well bore stability and strategic decision making, to name a few. These courses not only helped in enhancing knowledge, but also created new synapses for exchange of ideas in the future.





The main event will unfold tomorrow, with the inaugural session of **"Jaipur-2015"**.

## **MEDIA INTERACTION**

The curtain raiser of Jaipur 2015, the 11th Biennial International Conference and Exhibition organized by the Society of Petroleum Geophysicists (SPG); was a media interaction at the JECC. The Board of ONGC led by Shri D K Sarraf CMD along with key executives of ONGC were present. About 25 media personnel actively participated.

To set the mood, short film on SPG, with electrifying musical score on local instrument Morchang and khadtal, accompanied by dholak was played for the enthrallment of the audience.

At the outset, Shri A K Dwivedi, Director Exploration and Patron SPG welcomed the gathering. During his address he touched upon various activities of SPG; and elaborated upon the relevance of the Conference theme. He also expressed that the people of Jaipur would get a glimpse in to the various activities of E&P industry.

Shri G C Katiyar, President SPG detailed the activities of SPG since its inception in 1992. He explained the subject of Geophysics and oil exploration in a simple yet lucid manner in Hindi.

The question and answer session commenced with a query on ONGC's awareness towards climate change. Shri A K Dwivedi Director (Exploration) in reply elaborated various initiatives like creation of a dedicated Carbon Management and Sustainability Group, OTC Agartala and 4 green buildings being dedicated for reduction of carbon foot print, apart from other ongoing initiatives in various activities. He also informed the house that ONGC has accumulated 3.2 Lakh Carbon credits - largest among the Indian companies through clean development methodologies.

Another question brought up the concern about subdued oil prices, and their effect on the investments in oil and gas sector. Shri D K Sarraf, CMD ONGC expressed that this has multiple affects – on one hand India's import bill for petroleum products has reduced, though the profitability of the company has been affected. He also saw opportunity in this phase in form of reduced cost of services, reduced subsidy payouts, and as a phase of reinforcement. It was informed that projects worth over Rs 27000 Crores have been cleared during 2014-15. Another mega project too is on cards for development of KG-DWN-98/2, which may see investments more than the aforementioned 4 projects put together. On completion, this project would account for 10% of India's crude oil and 20% of gas production.

Replying to a question regarding separate allocation for renewable energy, Shri D K Sarraf informed that India will be largest consumer of energy by 2040, and energy from every source needs to be harnessed. ONGC is already serious about green energy initiatives, as seen from the wind and solar plants it has set up in various states including Rajasthan.

While answering a question on the technologies required for exploration, Shri A K Dwivedi mentioned that with all the easy oil exhausted, we are looking at difficult targets, which are technology intensive. He also mentioned that ONGC has 5 mining leases and 2 NELP Blocks in Rajasthan which have pre defined minimum work program including seismic data acquisition to be fulfilled.





## Petroleum Minister asks SPG to bring out key technology challenges: SPG International Conference Jaipur-2015

The Hon'ble Union Minister of State Mr. Dharmendra Pradhan has asked the Society of Petroleum Geophysicists (SPG) India to bring out the topmost 5-6 technological challenges in the field of exploration of oil and gas. Inaugurating the 11<sup>th</sup> Biennial International Conference & Exhibition of the SPG India organized by ONGC at Jaipur today, Mr. Pradhan promised that the Ministry of Petroleum & Natural Gas will consider these challenges and support for their resolution.

Referring to geoscience technologies as the key link in improving exploration success for oil and gas in the country, the Union Minister said there are immense potential in the un-appraised sedimentary basins. "We need to fast-track exploration, with collective collaboration between the government and the geoscientific community. This is only way to reduce our growing dependence on imported oil."



### Petroleum Minister Dharmendra Pradhan inaugurated 11<sup>th</sup> biennial SPG International Conference & Exhibition at Jaipur on 4 December 2015

Citing Prime Minister's call to reduce import dependence by 10 per cent by 2022 - the 75<sup>th</sup> anniversary of Indian independence, Mr. Pradhan felt that upstream energy companies like ONGC are a key component for this energy security, and Geophysics is one of the most important cogs in the wheel.



Earlier, addressing the significant turnout of delegates, which included international oil & gas stalwarts from across the globe, Petroleum Secretary Mr. K D Tripathi opined that to realize the untapped potential in the Indian sedimentary basins, geoscientists need to challenge the oil concepts and look for new ones, especially in the Mannar, Bengal and Andaman deepwaters. Mr. Tripathi, appreciating the apt theme of the conference 'Solutions through Technologies, Uncertainty to Possibility', asked the geoscientists to create appropriate models to lead from Uncertainty to Possibility and then to Uncertainty.



**In the inaugural session, the Petroleum Minister gave the coveted B S Negi Convention Gold medal, and life time achievement award to former ONGC Executive Director Mr. Kharak Singh for his yeoman's service in the field of geosciences.**

Mr. D K Sarraf, CMD ONGC who is also the Chief Patron of SPG India, said that while the world petroleum industry is reeling under the low crude prices, for India it is economically good as India is a net importer of crude oil. For NOCs like ONGC, it is an opportunity to build up upstream capacity, leveraging the low service costs and availability of quality service."

Mr A K Dwivedi, Director (Exploration), ONGC patron of SPG India, said that SPG is committed to develop cutting edge technologies, especially related to seismics, to de-risk the upstream petroleum industry.

The SPG is affiliated to the Society of Exploration Geophysics (SEG) of USA and the European Association of Geoscientists and Engineers (EAGE), The Netherlands. President Elect of SEG Mr. William L Abriel and

Representative of EAGE Ms. Valentina Socco of EAGE talked of the inclusive work of their associations and their professional bond with SPG India.

The 3-day International Conference & Exhibition of SPG is being held in Jaipur for the first time. Apart from sharing petroleum industry best practices, the Exhibition is also showcasing state-of-the-art technologies by various global oil-field service providers. The Exhibition also was inaugurated by the Minister.



**Petroleum Minister Dharmendra Pradhan inaugurating the SPG Exhibition at JECC, Jaipur. From left: ONGC Director (Exploration) A K Dwivedi, ONGC CMD D K Sarraf and Petroleum Secretary K D Tripathi**

*Issued by  
Press & Publicity Committee,  
SPG, India*



**Bay of Bengal a hot Oil & Gas property: SPG international conference 'Jaipur-2015'**

Globally-reputed geoscientists participating in the international conference and exhibition of the Society of Petroleum Geophysicists (SPG) at Jaipur are of the opinion that the Bay of Bengal is a hot property in the global petroleum turf. A number of internationally-reputed geoscientists are sharing their ideas and best practices in this 3-day conference which is being organized by oil Maharatna ONGC for the first time in the Rajasthan capital as a Green conference, with the minimum use of paper.

Dr. Oz Yilmaz, an authority on petroleum geophysics, opined that Indian basins pose challenges for geophysical imaging due to their unique structural traits. Bringing out the unique features of the Bay of Bengal, Dr. K S Krishna of the National Institute of Oceanography said that this area is a highly prospective.



Globally-reputed geoscientists participated in the international conference of the Society of Petroleum Geophysicists (SPG) at Jaipur; William Abriel (3<sup>rd</sup> from left) and Dr. Oz Yilmaz (4<sup>th</sup> from left)

Various internationally-acclaimed geoscientists, like President Elect of the Society of Exploration Geophysics (USA) William Abriel and Board Representative of the European Association of Geoscientists and Engineers (Netherlands) Ms. Valentina Socco are participating in this SPG conference.

The Society of Petroleum Geophysicists (SPG), through this international conference, is trying to foster a stronger linkage between the academia and the industry, which helps the petroleum to grow while tailoring career opportunities for graduate science students. Many countries with a strong petroleum industry like Norway, have a robust structural relationship between academia and the industry, which the SPG is trying to benchmark for India.

The SPG Patron A K Dwivedi, who is Director (Exploration) of ONGC, said that SPG had a message to the graduate science students that low crude oil prices is a cyclic process and the students should continue to look at the petroleum industry as a robust and long-term career option.

*Issued by  
Press & Publicity Committee,  
SPG India*

## **Theme Session: Solutions through Technologies- Uncertainty to possibility.**

During the Theme session, Mr A K Dwivedi Director (Expln) ONGC delivered a talk to set the tone of the conference.

He touched upon various intricacies of hydrocarbon pursuit, like E&P life cycle, role of technologies in bridging the possibility to certainty gap. He also delved in to challenges in the Indian scenario like exploration in matured basins, chasing difficult plays like HPHT, deep water, basement, shale gas and gas hydrates. He expressed that the technologies need to be inducted simultaneously across the entire E&P value chain. This requires a multi-disciplinary approach, while ensuring sustainability. It emerged from his talk that challenges and solutions have dynamic relationship. Solutions of today raise expectations, and create new challenges to accomplish.

Mr N Laxminarayana Scientist/Engineer- SG, ISRO; gave a talk on space exploration, wherein he gave a snapshot of India's space odyssey. He introduced various launch vehicles & satellites and their capabilities. He also elaborated on how uncertainties during launches of Chandrayan and Mangalyan were made possible by diligent use of technology and people.

Dr. Fred Hiltermann Distinguished Research Professor, University of Houston presented the paper on selecting seismic attributes for pore fluid discrimination amplitudes for reservoir characterization. He elaborated upon use of qualitative and quantitative, layer and boundary attributes for pore fluid discrimination. He presented a case study wherein fluid factor was used as discriminator on an old dataset.

Shri N C Nanda, as session chair summarized the proceedings of the theme session.

## **Plenary Session-1: Technological advances in exploration.**

The plenary session was chaired by Mr Satendar Chopra. Three technical papers were presented during the session.



**Three Plenary speakers: From Left: Dr Stuart Walley, Mr Ahmed Ashraf and Dr Soman Chacko**

Dr Stuart Walley, Country Manager Paradigm, presented a paper on Distinctive Science in Modern Exploration, touching upon advances in earth modeling. He brought out the critical aspect of approximations/ assumptions while creating earth models, emphasizing that approximations get amplified and propagated leading to loss of fidelity.



PIC

Mr Ahmed Ashraf presented a paper on Seismic Guided Drilling. He brought out the use of technology in derisking well placement through an example, wherein SGD helped in refining the velocity model, and as a result rebuilding the 3D earth model.

PIC

Mr Somen Chacko, delivered a talk on Reducing uncertainty through deterministic use of technology. His talk stressed upon clearly defining the problem and then applying the suitable technological solution. He elaborated his point with examples from Raava and Mangala fields.

**PIC (Audience)**