

# *Annual Report*



*2016-17*

**FIPI**



**Federation of Indian Petroleum Industry (FIPI)**

*Voice of Indian Oil & Gas Industry*

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# Contents

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Financial Highlights	3
Amalgamation	3
Formation of Working Committees of FIPI	4
FIPI Awards 2016	6
Studies undertaken during the year	9
Major representations & reports submitted	9
Activities during the Financial Year	10
FIPI Journal	43
Weekend Reading	43
Website	43
Accounts 2016-17	43
Member Organisation as on March 31, 2017	70

# VISION

## Core Purpose Statement

To be the credible voice of Indian hydrocarbon industry enabling its sustained growth and global competitiveness.

## Shared Vision

- A progressive and credible energy advisory body stimulating growth of Indian hydrocarbon sector with global linkages.
- A healthy and strong interface with Government, legislative agencies and regulatory bodies.
- Create value for stakeholders in all our actions.
- Enablers of collaborative research and technology adoption in the domain of energy and environment.
- A vibrant, adaptive and trustworthy team of professionals with domain expertise.
- A financially self-sustaining, not-for-profit organization.

## Dear Members,

It is my privilege to place before you the Audited Balance Sheet and the Income and Expenditure Account of the Federation of Indian Petroleum Industry for the financial year ending March 31, 2017. As you are aware, upon merger of PetroFed into Petrotech, the new entity called "Federation of Indian Petroleum Industry (FIPI)" has been registered under the Societies of Registration Act XXI of 1860 on December 2, 2016. The members of erstwhile Petrotech & PetroFed consequently become the members of Federation of Indian Petroleum Industry. The activities of erstwhile Petrotech & PetroFed are being carried forward by Federation of Indian Petroleum Industry to meet its objectives.

## Financial Highlights

Consequent upon the merger of Petrotech Society with PetroFed and change of name of Petrotech to Federation of Indian Petroleum Industry (FIPI), this is the 1<sup>st</sup> Annual Report after amalgamation. While the amalgamation took place on December 02, 2016, the accounts of two Societies were merged on March 31, 2017.

The Financial Highlights of your Society for the year under review are as follows:

1. The combined corpus of your Society as on March 31, 2017 stood at Rs 27.45 crore.
2. The Reserves and Surplus as on March 31, 2017 stood at Rs. 49.97 crore.
3. PetroFed organised India-Africa Hydrocarbons Conference 2016 and a Special Fund - "International Engagement Fund" was created out of surplus arising out of the conference which has an unspent balance of Rs. 3.75 crore as on March 31, 2017.
4. Investments of the Society as on March 31, 2017 were Rs. 82.35 Crore.
5. During FY 2016-17 the society had an income of Rs 12.12 crore against which an expenditure of Rs 10.82 crore was reported, resulting in excess of income over expenditure of Rs 1.30 crore.
6. During the year, Petrotech 2016 was held and the net surplus from the event as per the audited accounts as on March 31, 2017 submitted by Indian Oil Corporation Ltd. (the company responsible for organising the event) was Rs 2.38 crore.
7. An amount of Rs 0.97 crore being unclaimed liabilities was booked as surplus from Petrotech 2014.
8. Thus, the total amount carried to the Reserves and Surplus during FY 2016-17 was Rs 4.65 crore (Rs 1.30 crore + Rs 2.38 crore + Rs 0.97 crore).
9. The status of Income Tax demands as under:
  - a. Income Tax for the AY 2009-10 Rs. 3.79 crore
  - b. Income Tax for the AY 2010-11 Rs. 0.52 crore
  - c. Income Tax for the AY 2011-12 Rs. 1.12 crore
  - d. Income Tax for the AY 2012-13 Rs. 1.10 crore
  - e. Income Tax for the AY 2013-14 Rs. 3.44 crore
  - f. Income Tax for the AY 2014-15 Rs. 2.02 crore

This is for your information that in respect of the AY 2009-10, 2010-11, 2011-12, 2012-13 had preferred an appeal before the CIT (A) and it was decided in the society's favour. The Income Tax department had gone to Income Tax Appellate Tribunal against the said orders. For AY 2009-10 ITAT has ruled in favour of the society. In respect of the AY 2013-14 & 2014-15 had preferred an appeal before the CIT (A) which has been decided in its favour. Thus, as of now all income tax demands have been decided in favour of the Society.

## Amalgamation

In line with the scheme of amalgamation of PetroFed with Petrotech Society and change of name of Petrotech Society to Federation of Indian Petroleum Industry (FIPI), it was approved by the Governing Council and General Body of both the erstwhile societies that Governing Council shall comprise a minimum of 12 and maximum of 21 members as set forth in the Amalgamation Report. Following nominations to Governing Council have been received from the 13 member organisations:

Sl.	Member Organisation	Representative Nominee	
		Name	Designation
1	Oil and Natural Gas Corporation Limited	Shri D.K. Sarraf	CMD
2	Indian Oil Corporation Limited	Shri Sanjiv Singh	Chairman
3	GAIL (India) Limited	Shri B C Tripathi	CMD
4	Hindustan Petroleum Corporation Limited	Shri M K Surana	CMD
5	Bharat Petroleum Corporation Limited	Shri D Rajkumar	CMD
6	Oil India Limited	Shri Utpal Bora	CMD
7	Reliance Industries Limited	Shri P M S Prasad	ED & Member of the Board
8	Cairn India Limited	Shri Sudhir Mathur	CEO
9	Engineers India Limited	Shri Sanjay Gupta	CMD
10	Essar Oil Limited	Shri L.K. Gupta	MD & CEO
11	HPCL-Mittal Energy Limited	Shri Prabh Das	MD & CEO
12	Shell Companies in India	Shri Nitin Prasad	Chairman
13	BP Group	Shri Sashi Mukundan	Regional President and Head of Country, India

Two vacancies are to be filled from academic and research institutions as members of Governing Council of FIPI. FIPI has approached the following:

- ISM, Dhanbad
- IIT, Delhi
- UPES, Dehradun
- RGIPT, Rae Bareilly
- PDP, Gandhinagar
- CSIR-IIP, Dehradun

We have received the nominations & Chairman FIPI has to finalise the selection of two members from the above institutes.

In line with the scheme of Amalgamation of PetroFed with Petrotech Society and change of name of Petrotech Society to FIPI, it was approved that CMD, ONGC and Chairman, IOCL to hold the position of Chairman and Co-Chairman respectively for two years on rotational basis. Considering the larger spectrum of the activities of FIPI, the names of Shri P M S Prasad, ED and Member of the Board, Reliance Industries Limited and Shri L.K.

Gupta, MD & CEO, Essar Oil Ltd. as Vice Chairman of the Society to give representation to private sector.

Director General, FIPI shall be the Member Secretary of the Governing Council without any voting rights.

## Overview

With increasing recognition, your Federation continues to relentlessly pursue efforts to promote healthy growth of the Indian hydrocarbon sector and thereby meet aspirations of its members.

During the year under review, the Federation organised & actively participated in over 50 significant events besides taking up a host of key issues with various authorities.

## Formation of Working Committees of FIPI

Governing Council approved formation of the following working committees and directed Director General to obtain nominees from member companies. The committees are as under:

1. Budget and Investment
2. Tariff, Duties & Taxes
3. LPG Marketing

4. Safety, Health & Environment
5. Natural Gas/ CNG/LNG
6. Alternative Sources of Energy
7. Refining
8. Upstream Operations
9. Downstream Marketing
10. Pipelines
11. IT & Cyber Security
12. CBM/Shale/Gas Hydrates

### **Audit Committee**

The Governing Council approved the constitution of an Audit Committee comprising of three members which will be headed by Shri L.K. Gupta, MD & CEO, Essar Oil Ltd. as Chairman and two other members from Governing Council. The appointment to the Audit Committee shall be for a period of two years where after it will be reconstituted with the approval of Governing Council. The existing members can offer themselves for re-appointment.

### **Office Space for FIPI**

With the amalgamation of Petrotech and PetroFed, the employees of erstwhile Petrotech shifted to erstwhile PetroFed office but a need was felt to have a more spacious office. Your Federation looked at various properties. PHD Chamber offered space in the

same building. They have offered a space of 4900 sq. ft. on 3<sup>rd</sup> floor @ Rs. 215/- sq. ft. plus applicable taxes.

### **New Initiatives**

### **HR Policies & Rules**

With amalgamation of PetroFed and Petrotech a need was felt to make a comprehensive HR policy in order to maintain uniformity in the service conditions of employees. Your Federation framed HR Policies and Rules for FIPI which has been made effective from April 1, 2017. The HR Policy covers all employees' related matters.

### **Significant Initiatives**

With the active cooperation of member companies and guidance of the Governing Council, your Federation undertook a host of initiatives during the year in consonance with our objectives and submitted coordinated industry views to various authorities including the Ministry of Petroleum & Natural Gas, Ministry of Finance, Ministry of Corporate Affairs, Bureau of Indian Standards, Director General of Foreign Trade, etc.

During the year, the Federation organized twenty nine conclaves for CEOs and Top Management, Seminars/Conferences and Workshops, four Guest Lectures, actively associated with five significant conferences & seminars in India and abroad. In pursuit of our objective to enhance & update knowledge & industrial exposure of the teaching faculty, four Industry-Academia programmes were organized on subjects identified in consultation with the academia.

## FIPI Awards 2016

PetroFed award scheme is designed to imbibe the spirit of competitiveness among member companies by constantly improving and excelling in their business functions. Instituted in 2007, the scheme is reviewed regularly to improve upon its previous version.

FIPI Awards 2016 for the performance in 2015-16 in two broad categories; Individual and Team performance and Corporate

Performance (Twelve awards) were announced in December 2016 with an extended closing date of February 7, 2017 to receive entries. An overwhelming response of 90 entries was received for all 15 awards.

Re-constitution of FIPI Awards Committee and Jury Members with the following members:

## Awards 2016 - Jury

### CHAIRPERSONS

#### Dr. Anil Kakodkar

INAE Satish Dhawan Chair of Engineering Eminence at the Atomic Research Centre & former Chairman Atomic Energy Commission of India and Secretary to the Govt. of India.

#### Dr. R. A. Mashelkar

President of the Global Research Alliance; Chairperson, National Innovation Foundation of India & former Director General, CSIR

### MEMBERS

#### Shri Naresh Narad

former Chairman, Public Enterprises Selection Board & former Secretary to the Govt. of India

#### Shri S.C. Tripathi

former Secretary to the Govt. of India

#### Shri M. A. Pathan

former Chairman, Indian Oil Corp. Ltd.

## Awards 2016 - Awards Committee

Name	Position
Shri G.C. Chaturvedi, former Secretary to Gol	Chairman
Shri M. B. Lal, former CMD, HPCL	Member
Shri S. Behuria , former Chairman, IOCL	Member
Shri R. S. Sharma, former CMD, ONGC Ltd.	Member
Dr. C. R. Prasad, former CMD, GAIL (India) Ltd.	Member



## Awards for 2015



Responsibly Growing Corporate of the Year	<i>Indian Oil Corp. Ltd.</i>
Exploration and Production Company of the Year	<i>Oil India Ltd.</i>
Refinery of the Year	<i>Essar Oil Ltd.</i> <i>*Reliance Industries Ltd. - SEZ</i>
Oil & Gas Marketing - Company of the Year	<i>Hindustan Petroleum Corp. Ltd.</i>
Oil & Gas Pipeline Transportation Company of the year	<i>Indian Oil Corp. Ltd.</i> <i>*Bharat Petroleum Corp. Ltd.</i>
Environmental Sustainability Company of the Year	<i>Oil &amp; Natural Gas Corp. Ltd.</i> <i>*GAIL(India) Ltd.</i>
Game Changer - Oil & Gas Company of the Year	<i>Cairn India Ltd.</i>
City Gas Distribution Company of the Year	<i>Indraprastha Gas Ltd.</i>
Human Resources Management Company of the Year	<i>HPCL Mittal Energy Ltd.</i>
Innovator of the Year - Team	<i>Team led by Sh. B.P. Das</i> <i>Indian Oil Corp. Ltd.(R&amp;D)</i>  <i>*Team led by Dr. N.V. Choudary</i> <i>Hindustan Petroleum Corp. Ltd.(R&amp;D)</i>
Woman Executive of the Year	<i>Ms. Hembala P. Dixit</i> <i>Essar Oil Ltd.</i>

*\*Special Commendation*





*Sh. Prabh Das, MD & CEO, HMEI receiving 'Human Resources Management Company of the Year' Award.*



*Sh. Lalit Gupta, MD & CEO, Essar Oil Ltd. receiving 'Refinery of the Year' Award.*



*Sh. Utpal Bora, CMD, Oil India Ltd. with his team receiving 'Exploration & Production Company of the Year' Award*



*Sh. B. Ashok, Chairman, IndianOil receiving 'Responsibly Growing Corporate of the Year' Award*



*Shri K. D. Tripathi, Secretary, MoP&NG released the study report on 'Impact of Soft Global Crude Oil Prices on Indian Oil & Gas Industry' during the PetroFed Awards Ceremony.*



*Shri K. D. Tripathi, Secretary, MoP&NG addressing during the Award function.*



## Studies undertaken during the year

- A Study Report on 'Impact of Soft Global Crude Oil Prices on Indian Oil & Gas Industry' in association with ICRA in December 2016

With the sharp decline in the global crude oil prices, ICRA was mandated to carry out a comprehensive analysis of the impact of the meltdown of the global oil prices on the Indian oil & gas industry. The study was jointly undertaken with a view to enable our members and policy makers to assess the macro and micro level impact of the material fall in oil & gas prices on the Indian economy, oil & gas industry participants and downstream consuming sectors. The study report was released during the PetroFed Awards 2015 function at New Delhi.

- B Accelerating India's Transition to Gas by Enabling Increased Market Access in association with BHC, IHS, ICF in December 2016

The project studied how the Indian gas consumption can grow faster by expanding and diversifying existing markets (near physical infrastructure), creating new markets (virtual pipelines), improving last-mile access to consumers, and developing appropriate institutions that can support and enable gas market growth. The project established the robust economics of gas relative to liquid fuels (especially petrol and diesel) and the case for gas compared to more polluting industrial fuels and coal.

- C Survey on 'India's Hydrocarbon Sector Investor Index and Market Survey'

A joint market survey was undertaken alongwith EYE On to assess the new business environment in India's hydrocarbon sector wherein 214 oil executives, industry analysts and policy experts responded to key questions on the market. The results of the survey were announced during the PetroFed Awards 2015 function in the presence of august gathering.

- D A Study on Climate Change Risks : Preparedness of Oil and Gas Sector

TERI has been mandated on behalf of the industry to carry out the above study primarily to assess the preparedness of oil & gas sector on the climate change risks. The study provided a comprehensive analysis of threats posed by climate change to oil & gas sector and shall provide a way

forward to tackle the challenges anticipated. The study will suggest suitable measures for the oil & gas sector to achieve India's Intended Nationally Determined Contributions (INDCs) target of reducing emission intensity of GDP by 33-35% below the levels of 2005 by 2030. The study would further highlight how the global market and technological options are likely to change as a result of global climate policy measures; and how the 1.5 degree and 2 degree scenarios of global warming are likely to affect the infrastructure and operations in different climatic zones of India.

- E India's Energy Security: Inter-regional Cooperation to Energy Security Society

JNU has been mandated to carry out the above study. The study would examine the diplomacy, sovereignty, political management and trade, and derivative primary institutions such as bilateralism, multilateralism, economic nationalism and the market cooperation with contrast among each country i.e. between India and Bangladesh, Myanmar, Malaysia, Indonesia and Vietnam. Studies between primary institutions would provide a background to develop the types of cooperation that would be suitable for India's Energy security with these Asian countries.

### Major representations and reports submitted are:

- Submitted to Secretary, MoP&NG; Revenue Secretary, Ministry of Finance; in February 2017 on 'Oil & Gas Industry fiscal issues'
- Submitted to Secretary, MoP&NG; Revenue Secretary, Ministry of Finance; in January 2017 on 'GST - Inclusion of Petroleum and Hydrocarbon Industry'
- Submitted to Secretary, MoP&NG in December 2016 on 'Price Review of Natural Gas produced domestically from existing field'
- Submitted to Revenue Secretary, Ministry of Finance in December 2016 on 'OID Cess on Indigenous Crude Oil'
- Submitted to Member (CBEC), Department of Revenue, Ministry of Finance in December 2016 on 'Excise Duty on Branded HSD - Pre-Budget Memorandum 2017-18'
- Pre-Budget Memorandum for Union Budget 2017-18
- Submitted to Joint Secretary, Prime Minister's Office in November 2016 on 'Service Tax on Royalty & GST'



- h. Submitted to Chairman, CBEC in September 2016 on Subsuming CST to GST
- i. Submitted to Secretary, MoP&NG; Chairman, CBEC, Ministry of Finance and Secretary (Revenue), Ministry of Finance in July 2016 on Constitution Amendments and GST Bill
- j. Submitted to Additional Secretary & Finance Advisor, MoP&NG in June 2016 on Clarification on Non-applicability of Service Tax on Transactions between UJV under PSC and its members for Petroleum Operations
- k. Submitted to Member, CBEC in June 2016 on Levy of Service Tax on Royalties
- l. Submitted to Joint Secretary (TRU-I), Ministry of Finance and Additional Secretary & Finance Advisor, MoP&NG in May 2016 on Incidence of Double Duty Taxation on Auto Fuels from SEZ Refinery
- m. Submitted to Secretary, MoP&NG and Revenue Secretary, Ministry of Finance in May 2016 on Service Tax on Services provided by the Government or Local Authorities to business Entities

## Activities during the Financial Year

CEO/Top Management Conclaves, Conferences, Seminars & Workshops were organized as follows:

### Seminar on 'Smart Refineries' held on April 22, 2016 at New Delhi.

Indian Refiners are gearing up to a challenging schedule of April 1, 2020 for placing BS-VI auto fuels in the market. Modular Configuration and process intensification approach offers a viable green option to meet this challenge head on.

Dr. R.K. Malhotra, Director General, PetroFed welcomed the participants and gave a brief about the seminar. Mr. James E. Rekoske, VP & Chief Technology Officer, UOP, USA in his theme address brought out the key challenges and issues being faced by the petroleum refining industry.

The day-long programme, comprehensively covered all aspects of refining in three technical sessions. There were seven presentations covering the subject. The sessions were chaired Shri A.S. Basu, Head of Refinery, HMEI; Shri Prasad Panicker, ED (Kochi Refinery), BPCL and Shri K. Govindarajan, CEO-Projects, Essar Oil Ltd. The sessions witnessed extensive floor participation.



Dr. R.K. Malhotra, DG, PetroFed welcoming the participants.



Mr. James E. Rekoske, VP & Chief Technology Officer, UOP, USA delivering his Inaugural Address.



Dr. Malhotra presenting a memento to Mr. James E. Rekoske.



Mr. Steven C. Gimre, MD, UOP India Private Limited making his presentation.



Technical Session I : (L-R) Mr. Steven C. Gimre, MD, UOP India Pvt. Ltd.; Mr. A.S. Basu, Head of Ref., HMEL and Mr. Rajeev Bhandari, Director HTS-HPS, UOP India Pvt. Ltd.



Technical Session II: (L-R) Mr. Praveen Gosain, Regional Director-India, S.E. Asia and Australia, Corning Technologies India Pvt. Ltd.; Mr. Prasad Panicker, ED (Kochi Ref.), BPCL and Prof. K.K. Pant, IIT, Delhi.



Technical Session III: (L-R) Mr. S. N. Sheshachala, Chief Manager (R&D), HPCL; Mr. K. Govindarajan, CEO - Projects, EOL and Mr. Sheo Raj Singh, Head (R&D), EIL.



Mr. Manu Sehgal, Head - Strategy & Feedstock Supply Group, HMEL raising a query.

### Leadership Competencies for Energy Sector (LCES-2016) April 25-29, 2016, IIM Ahmedabad

A residential program on "Leadership Competencies for Energy Sector (LCES-2016)" was jointly organized with IIM Ahmedabad, from April 25-29, 2016.

This program was organized to help senior executives working in upstream, downstream, midstream petroleum companies, power sector, coal sector and alternate energy sector to build strategic thinking competencies which is required for the leadership roles. The focus was on learning self-improvement techniques and on learning tools to assess competitive, organizational, operational, and economic environment to improve strategic thinking. One of the key objectives was to transform executives working in operational roles to develop a cross-functional and integrated perspective required for handling complex strategic issues. LCES offered extraordinary opportunities for expanding personal and professional leadership competency set with focus on strategic thinking, formulation, and implementation.



Expert lectures in the field of Strategy Formulation, Project Costing and Financial, competencies required for General Manager, Supply Chain Management, Marketing, Disruptive Innovation, Econometric Tool to Analyse Oil and Gas Industry/ Energy Sector etc. were organized. In addition, analytics for data, analytics for bidding, performance metric for renewable energy / power companies was also covered. The program was attended by 13 executives from different oil & gas companies.



## Industry Academia Interface on A-Z of Natural Gas & LNG during April 28-30, 2016

The Petroleum Federation of India organized the 5<sup>th</sup> Industry-Academia workshop on 'A-Z of Natural Gas & LNG' in association with the Petronet LNG Limited (PLL) from April 28 - 30, 2016 at Ernakulam, Kochi in Kerala.

The programme was conducted by experts from the industry and designed for the teaching faculty of Engineering Colleges, Universities and Industry members. Mr. Prabhat Singh, MD & CEO, PLL delivered the inaugural address. His inspiring futuristic talk on Oil & Gas industry was well received by the participants.

Welcoming participants, Mr. T.N. Neelakantan, VP (Plant Head) - Kochi, PLL gave a brief background about PLL's phased development, future expansion programme and challenges. During the inaugural session, Mr. R.K. Garg, Director (Finance), PLL delivered Special Address.

Mr. Suresh Mathur, founding CEO & MD, PLL chaired the valedictory session. Mr. S. Rath, Director (E&P), PetroFed while proposing a vote of thanks elaborated on the background of Industry-Academia Interface programmes organized by PetroFed. The feedback of participants was excellent.

## Seminar on Hydrocarbon prospects for India in Latin America & Caribbean held on May 10, 2016

PetroFed organized a seminar on Hydrocarbon Prospects for India in Latin America and Caribbean (LA&C) on May 10, 2016 at India Habitat Centre, New Delhi to deliberate on opportunities, challenges, political risks, policy framework etc. related to hydrocarbon sector in LA&C region.



Dr. R. K. Malhotra, DG, PetroFed welcoming Shri Dharmendra Pradhan, Hon'ble Union Minister of State (I/C) for P&NG with a bouquet.



Panel Discussion: (L-R) Shri Sujit Kumar, MD, Schlumberger Asia Services Ltd; Shri Atul Chandra, Senior Advisor, RIL; Professor Abdul Nafey, Centre for Canadian, US & Latin American Studies, JNU; Shri N. K. Verma, MD, ONGC Videsh Limited; Shri D. Rajkumar, MD, BPRL; Shri Biswajit Roy, Dir (HR&BD), OIL.

The seminar witnessed the presence of Hon'ble Union Minister of State Sh. Dharmendra Pradhan, Ministry of Petroleum & Natural Gas, Government of India and senior officials from MoP&NG, MEA, Dept. of Commerce, IDSA, JNU as well as various oil & gas companies like ONGC, OVL, OIL, BPRL, RIL, Schlumberger, IOCL, EIL, GAIL, OVL, PLL, Prize Petroleum etc.



Shri Dharmendra Pradhan making the concluding remarks.



Shri Sunjay Sudhir, JS (IC), MoP&NG delivering the Summary of the Proceedings.

## Symposium on Biofuels & Bioenergy: Enablers for Reducing Oil Import Dependence held on May 11, 2016

PetroFed organized a symposium on 'Biofuels and Bioenergy: Enablers for Reducing Oil Import Dependence' on May 11, 2016 at India Habitat Centre, New Delhi. The symposium had participation from senior government officials, technology developers, industry experts and academicians deliberating on enablers for enhancing the production of biofuels in the country.

Addressing the delegates the Hon'ble Minister of state Sh. Dharmendra Pradhan, Ministry of Petroleum and Natural Gas, Govt. of India emphasized on synergizing bioenergy to conventional energy market while developing India specific model so that biofuels can play an important role in India's inclusive growth story.

While delivering his Special Address, Dr. V. K. Saraswat, Member,

NITI Aayog said that for biofuels economy; price affordability and sustainability should be kept in mind, whereas ensuring coordination and understanding between supplier and buyer will allow smooth implementation of biofuels program.

The theme address was delivered by Dr. Jennifer Holmgren, CEO, LanzaTech, US emphasising on the circular economy where innovative technology for recycling waste to ethanol can play a role for carbon smart future.

Sh. K. D. Tripathi, Secretary, Ministry of Petroleum & Natural Gas in his valedictory address said that role of technology is important to not only augment biofuels production but also to secure the latter's role in India's Energy basket.

The conference saw participation of 14 national and international speakers in 4 technical sessions and more than 100 delegates.



Shri Dharmendra Pradhan addressing the delegates.



Dr. V. K. Saraswat, Member, NITI Aayog giving his Special Address.



Dr. Jennifer Holmgren, CEO, LanzaTech, US delivering Theme Address..



(L-R) Mr. Mahesh Kulkarni, Mgr, Praj Industries Ltd; Dr. Anjan Ray, UOP; Dr. Renu Swarup, Sr. Adviser, Dept. of Biotechnology, Ministry of Science & Technology; Mr. Bas Melssen, Novozyme; Dr. C. S. Laxmi Narasimhan, Shell Technology Centre..





Mr. Prashant K. Banerjee, SIAM making his presentation. Others(L-R) Ms. Varsha Joshi, JS, MNRE; Mr. Subodh Kumar, IOCL.; Mr. R. K. Misra, Indian Railways Organization for Alternate Fuels.



Mr. Chris de Lavigne, KPMG Services Pte Limited making his presentation through Skype. Others(L-R) Lt. Col. Monish Ahuja (Retd.), Punjab Renewable Energy Systems Pvt. Ltd.; Dr. Y. B. Ramakrishna, Chairman, Working Group on Bio Fuels, Ministry of Petroleum & Natural Gas, Govt. of India ; Dr. Vibha Dhawan, TERI; Mr. Mainak Chakraborty, GPS Renewables.



Dr. D. K. Tuli, DBT-IOC Centre for Advanced Bio-Energy Research chairs the session. Others(L-R) Mr. S.R Soni GM- Distillery at India Glycols Ltd; Mr. Vasudeo Joshi, Praj Industries Ltd.



Mr. K. D. Tripathi, Secretary, MoP&NG delivery the Valedictory Address



A section of participants.

### Roundtable meeting on Way-forward for Enhancing Biofuels Availability held on May 11, 2016

PetroFed organized a Round table meeting on 'Way-forward for Enhancing Biofuels Availability' on May 11, 2016 at New Delhi for deliberating the key takeaways of the symposium on 'Biofuels

and Bioenergy : Enablers for Reducing Oil Import Dependence'. The roundtable aimed to develop the recommendation for enhancing biofuels availability in the country. The roundtable witnessed participation of leading biofuels experts from India & Overseas.



Dr. Y.B. Ramakrishna, Chairman, Working Group on Bio Fuels, MoP&NG chairing the Roundtable Discussion.



Dr. Preeti Jain (Jt. Dir, Economic Policy & Planning) presenting the summary of conference with Mr. R Bahl, Director, (FT&L, PetroFed).



Experts during the Roundtable Session.



A group photograph.

### 8<sup>th</sup> Seminar on "Hydrocarbon Industry Growth-Prospects & Challenges in North East" from May 12-13, 2016

In consonance with the objectives of PETROTECH to strengthen Industry-Academia linkage, PETROTECH in collaboration with IOCL-Assam Oil Division organized 8<sup>th</sup> Seminar on "Hydrocarbon Industry Growth-Prospects & Challenges in North East" from May 12-13, 2016 at Digboi.

The 2 days programme was designed with the prime objectives to share the advances made in the field of Exploration/Production, Refining and Pipeline Technologies. The participants in this course were primarily lecturers and professors, and heads of the departments of Petroleum Sciences and Petroleum Engineering, Geology, Geophysics, Refining / Pipeline Technologies inclusive of Chemical / Mechanical Engineering and related areas such as chemistry etc. and practicing managers from upstream/downstream and vertically integrated oil companies. The following topics were discussed / presented by eminent speakers from different oil & gas companies and academia:

- Past Present & Future of Oil & Gas in North-East
- History of Oil and Gas and Prospects for Alternate & Renewable Energy in North East
- North East Gas Grid and its Economic Impact
- Exploration & Exploitation of Oil in North-East

- Methods of Identification of Traps and Oil Reserves & Reserves Estimates
- Importance of Geoscience & Reservoir Studies in Petroleum Industry
- Drilling Challenges in NE
- Future of Oil Refining & Petrochemicals in North-East
- Indian Oil Refining - Value Addition Through FCC, (Special reference to INDMAX)
- Issues & Challenges in Refining Assam Crude for meeting BS-IV & BS-VI Quality of Fuels
- Upgradation of Condensate & Prospects of Petrochemicals in North East
- Logistics and Movement of Petroleum Challenges in North-East
- Pipeline Transportation of Oil & Gas - Past, Present & Future
- Pipeline Operation and Maintenance and Threats from Security and Safety Point of View

The above program was attended by 25 delegates from different oil & gas companies and academia.

### Meeting with Operators/Non Operators in PSC Regime held on May 27, 2016

PetroFed organized a meeting with Operators/Non Operators in PSC Regime under the aegis of MoP&NG on May 27, 2016 at New Delhi. The Hon'ble Minister has taken a number of path breaking initiatives to boost the growth of E&P sector. The latest was the launch of discovered small field bid round 2016 held on May 25, 2016 at New Delhi.

Under previous NELP regime, a number of issues arose while

operationalizing the PSC contracts. In the meeting organized by PetroFed, the E&P operators/non-operators in India got an opportunity to interact with Hon'ble Minister, team from MoP&NG and DGH at a single platform on May 27, 2016.

The operators/ non operators mainly brought the issues of : fiscal stability, timely resolution of issues; service tax on royalty, cash call, sharing of data etc. The Hon'ble Minister, Ministry official & DG, DGH assured to look into the matter to resolve the outstanding issues in a timely manner.





Hon'ble Minister presiding over the session along with other Govt. officials. (L-R) Shri U.P. Singh, CMD, OIL; Shri K. D. Tripathy, Secretary MoP&NG; Shri Dharmendra Pradhan, Hon'ble Minister of State (I/C), MoP&NG; Shri A. P. Sawhney, Additional Secretary, MoP&NG; Shri Atanu Chabraborty, DG, DGH



Meeting in progress.



Hon'ble Minister delivering the concluding remarks.



Dr. R. K. Malhotra, DG, PetroFed proposing vote of thanks.

### Brainstorming and Kick-off Session for Gas Markets Project held on June 1, 2016

The British High Commission had commissioned a project titled "Accelerating India's transition to gas by enabling increased market access" to a consortium of PetroFed, IHS and ICF. The purpose of this project was to catalyse a faster transition to a gas based economy in India.

A Brainstorming and kick-off meeting was organised by PetroFed on behalf of the project partners on June 1, 2016 at New Delhi. Shri Ashutosh Jindal, Joint Secretary (M&GP), Ministry of Petroleum & Natural Gas spearheaded the brainstorming session.

The immense interest of participants from the oil & gas sector was evident in the brainstorming session where the gas sector issues were deliberated for further study through survey, analysis and international best practices.



Ms. Frances Hooper, First Secretary (Energy & Climate), BHC (3<sup>rd</sup> from left) delivering the opening remarks. Others (L-R) Dr. B. Mohanty, Member, PNGRB; Dr. R.K. Malhotra, DG, PetroFed; Shri Ashutosh Jindal, JS (M&GP), MoP&NG; Shri S. Rath, Director (E&P), PetroFed; Shri R. Bahl, Director (FT&L), PetroFed.



Meeting in progress.

## 11<sup>th</sup> Petrotech Summer School on “Petroleum Refining & Petrochemicals” June 6-10, 2016 at liPM Gurgaon

Petrotech in collaboration with Indian Oil Corporation Limited (R&D) & Indian Oil Institute of Petroleum Management organized the 11<sup>th</sup> Summer School from June 6-10, 2016 on Petroleum Refining & Petrochemicals for exchanging views, experiences and perception between Academia and the industry.

Padma Vibhushan Prof. M.M. Sharma inaugurated the 11<sup>th</sup> Summer School on “Petroleum Refining and Petrochemicals” as chief guest on June 6, 2016 at liPM in presence of Shri Ashok Anand, Director General, Petrotech; Shri Anand Kumar, Director, Petrotech and Shri S P S Jolly, ED (liPM).



The summer school is a unique platform provided by Petrotech, IndianOil's R&D Centre and liPM for exchanging views, experiences & perceptions between Chemical Engineering Academia and Industry and also giving an understanding and a clear vision of the requirements of the hydrocarbon Industry to Academia. The program was attended by 16 Professors/ lecturers of Chemical Engineering from various institutions in India and 30 professionals from different refineries and R&D centre. Besides the lecture session by experts from various streams, visit to Panipat refinery and R&D centre, Faridabad was also organized.



In his inaugural address, Prof. M.M. Sharma, welcomed the participants and complimented the organizers for organizing such an excellent programme bringing Academia and Industry together. He gave a very anecdotal, insightful and interesting talk on the theme "Future of Chemical Engineering & Chemical Engineers of Future" and underlined the fact that Chemical Engineering is an evolving subject. He elaborated on how Chemical Engineering evolves out of necessity and how it is connected to the whole gamut of industries. He also exhorted all Chemical Engineers to be always on their toes and emphasized that failures are the harbinger of success and we should develop a culture of learning from failures.

Shri Ashok Anand, DG, Petrotech welcomed the gathering and said that research and innovation from Academia goes a long way in improving the Industry performance.

Shri S P S Jolly, ED (liPM), welcomed the gathering and emphasized that the Participants from both Academia and Industry should make use of this common platform soaking in the knowledge and experiences of each other and enjoy their stay at liPM with all its facilities while learning from the experts and interacting with Co-participants. Shri Anand Kumar, Director Petrotech while revealing the genesis of summer school programme also introduced Padma Vibhushan Prof. M.M. Sharma extensively and shared his personal interaction with Prof. Sharma.





**Panel Discussion on: 'Policy Initiatives: Accelerating Exploration & Production in the Hydrocarbon Sector' held on June 14, 2016**

PetroFed along with Energy Think Tank (ETT) organized a panel discussion on 'Policy Initiatives: Accelerating Exploration & Production in the Hydrocarbon Sector' on June 14, 2016 at India Habitat Centre, New Delhi.

Shri S. Rath, Director (E&P), PetroFed welcomed the participants and briefly gave the objectives of the discussion.

Shri J.S. Oberoi, former Convenor of ETT welcomed the new Convenor of ETT Dr. C. R. Prasad and gave the introduction of ETT.

Dr. C.R. Prasad, in his opening remarks as Convenor, ETT briefly outlined the objective of the panel discussions. He welcomed the eminent panellists Shri T.N. R. Rao, Chairman, ETT; Shri Vivek Rae, former Secretary, Ministry of Petroleum & Natural Gas; Shri Saurabh Chandra, former Secretary, Ministry of Petroleum & Natural Gas; Shri R.S. Sharma, former CMD, ONGC and Shri S.K. Srivastava, former CMD, OIL to the dais.

The recommendations which were brought out during the discussion among the panellists and participants were: Strategic Focus of Govt., Data Acquisition, Gas Pricing, Fiscal and Infrastructure issues.



Shri S. Rath, Director(E&P), PetroFed welcoming the participants.



Dr. C.R. Prasad, Convenor, ETT delivering the opening remarks & introduction of panelists.



Panelists (L-R) Sh. S. K. Srivastava, Former CMD, OIL; Sh. Saurabh Chandra, former Secretary, MoP&NG; Sh. T. N. R. Rao, Former Secretary, MoP&NG; Sh. Vivek Rae, Former Secretary, MoP&NG; Sh. R. S. Sharma, Former CMD, ONGC.



A section of the participants.



A section of the participants.



Shri K. D. Tripathy, Secretary, MoP&NG delivering his remarks..



*Shri Ajay Prakash Sawhney, Additional Secretary, Mop&NG sharing his thoughts.*



*Dr. R.K. Malhotra, DG, PetroFed delivering the vote of thanks.*

**2<sup>nd</sup> Workshop on Human Capital Analytics June 23-24, 2016, New Delhi**

Human Capital Analytics is about understanding the power of Human Capital to transform businesses by applying simple logic, and not just numbers. It is applying analytic process to the HR Department in the organization to enhance employee performance.

Petrotech in collaboration with Society of Human Resource Management (SHRM) organized a programme on Human Capital Analytics from June 23-24, 2016 at Hotel Claridges, New Delhi.

The workshop helped the participants in gathering business acumen and organizational knowledge, connecting human capital data to business operations and finally using it to make relevant business decision.

The key takeaways from this workshop were:

- Using facts and logic for decision making
- Learning how to represent data through dashboards and MIS
- Analysing the why behind events such as attrition and retention
- Making processes such as hiring more efficient and effective

The Program was delivered by Mr. Arunav Banerjee, Program Chair for the HR Leadership Program at SOIL. He has over 30 years of experience of which his industry experience (of over 15 years) saw him in various functional positions across the HR spectrum and is currently the subject matter expert on Human Capital Analytics with SHRM. The program on Human Capital Analytics was attended by 21 executives from various organizations.

**Seminar on Army's Fuelling Needs: Future Outlook held on June 29, 2016**

A seminar was organized on the topic 'Indian Army's Fuelling Needs: Future Outlook' on June 29, 2016 at Manekshaw Centre, Delhi Cantonment jointly by the Directorate General Supplies and Transport of Indian Army and Petroleum Federation of India. The seminar was inaugurated by Lt. Gen. R.V. Kanitkar, Quarter Master General of the Indian Army, and was attended by defence officers,

academia and oil industry representatives.

Presentations were made on the emerging trends in the use of energy resources in the background of energy efficiency improvement and environment considerations. Army officials also presented the need to change their current fuel consumption practices with ecofriendly sources of energy. Need to revise supply chain and logistics at army establishments especially in difficult terrain was also discussed.



*The dignitaries during the inaugural session (L-R) Dr. R.K. Malhotra, DG, PetroFed; Lt Gen RV Kanitkar AVSM, SM, VSM, QMG and Lt Gen Balbir Singh Sandhu, VSM, DGST*



*Dr. R.K. Malhotra, DG, PetroFed delivering the theme address*





A section of participants.

### Workshop on Impact of GST on Oil & Gas Sector held on July 12, 2016

PetroFed organised a workshop on the impact of Goods & Services Tax (GST) on the Oil and Gas Sector in association with knowledge partner, EY on July 12, 2016 at New Delhi. The workshop was organized primarily with the objective of understanding the challenges the industry would face with the implementation of GST in its current form. The issue seemed even more relevant with the government planning to implement the GST Law with effect from April 2017. The model GST law had been released on June 14, 2016 and was very much expected to dominate the scene in the monsoon session.

Mr Abhishek Jain, Tax Partner, Indirect Tax Services, EY made a lucid presentation covering various issues the new GST law will throw up before the Oil & Gas sector. This was followed by a panel discussion with eminent members from the industry - Sh. V. S. Krishnan, former CBEC Member Service Tax; Sh A.K. Sharma - Director (F) IOC; Sh. R.K. Garg - Director (F) PLL; Ms Bela Mao - Tax Director, Shell; Sh. R. Ganapathi Subramaniam, Sr. VP Tax, RIL and Sh. Kartikeya Dube- Tax Director, BP. The Panel discussion was moderated by Mr. Harishankar Subramaniam, Tax Partner & National Leader, Indirect Tax Services, EY. The panel discussion invoked an intense debate and provided an excellent opportunity to all the participants to raise their queries and seek clarification from the experts.



Mr. Harishankar Subramaniam, Tax Partner & National Leader, Indirect Tax Services, EY setting the context of the discussions.



Mr. Abhishek Jain, Tax Partner - Indirect Tax Services, EY making his presentation on GST implications.



A section of participants



Group photograph.

## Interactive Session on 'Deliberating Oil Markets' held on July 26, 2016

PetroFed organised an interactive session on 'Deliberating Oil Markets' in association with Shell on July 26, 2016 at New Delhi. The session witnessed presence of Hon'ble Minister, Secretary, Ministry of Petroleum and Natural Gas, Govt. of India and Senior Industry officials.

Mr. Chris Midgley, General Manager, Oil Market Analysis spoke

about future energy trilemma including affordable energy supply; energy security and mitigate emissions of greenhouse gases for developing economies countries like India.

Mr. Mike Muller, Vice President, Shell Trading and Supply Crude shared his thoughts on the initiatives that Indian Refiners can put in place to enhance their competitiveness in this dynamic environment.

The presentations were followed up by an insightful Q&A session.



Shri Sunjay Sudhir, Joint Secretary(IC), MoP&NG delivering the opening remarks.



Dr. R.K. Malhotra, Director General, PetroFed delivering the vote of thanks.



Mr. Mike Muller, Vice President, Shell Trading and Supply Crude giving the perspective on enhancing Competitiveness of Indian Refiners.



Mr. Chris Midgley, General Manager, Oil Market Analysis making his presentation on the Uncertainty in the Global Markets.



Hon'ble Minister and Govt. Officials at the event.



### 7<sup>th</sup> Industry Educational Program at University of Alberta, Canada August 7-14, 2016

Petrotech entered into a MoU with University of Alberta, in December 2007, for establishing a frame work for mutual co-operation in the fields of energy, academics, technology and related areas. Main objectives of this MOU were to collaborate and organise:

- Joint seminars and academic meetings,
- Exchange of academics materials and other information;
- Special short-term academic programs; and
- Programs to promote closer business and professional intercourse between Alberta and India.

The Petrotech-UA Industry Education Program was developed jointly by UA and Petrotech, under the short-term academic program. The 1<sup>st</sup> program was organized in the year 2008, with participation of 14 senior executives from member companies. Thereafter six programs have been successfully organized under this MoU, in which 133 senior executives from various member companies have participated.

The 7<sup>th</sup> program was redesigned and developed, based on feedback of the participants and internal discussions, to include more exposure to state of art technologies and R&D organizations, besides providing more opportunity for interaction with members of academia, and senior executives from industry.

Content of the program was focused around theme of 'Energy Technology Futures' with special reference to heavy oil extraction, syncrude and conventional oil production and processing, application of nano-technology, EOR, fracturing technologies, valorization of residues and waste, polymer science and technology, alternate energy, waste management, efficiency improvement, HSE etc.



The program was conducted at Edmonton and Calgary from which participants returned highly satisfied with the highly enriching and interactive inputs provided during the program.

The level of interaction and exposure is unique to this program from where the participants could pick up many new information and best practices and some of them could identify areas of collaboration, on which their organizations can further build upon.

Key take away for the participants was practical understanding of innovation at work place, need for innovation and that only continuous innovation is key to the sustainability of business we are in.

The 7<sup>th</sup> Petrotech-UA Industry Education Program was successful in meeting its objectives of sharing knowledge, best practices, learning about new technologies, technological developments processes, technologies identifying some technologies which could be used in India, creating better understanding about Canadian oil & gas industry for promoting closer ties between the industry and academia of Canada & India. The program was attended by 19 senior executives from different oil & gas companies.



**2<sup>nd</sup> Stakeholder Workshop for 'Accelerating India Gas Market' Project held on August 23, 2016**

PetroFed organised 2<sup>nd</sup> Gas Stakeholder Workshop on August 23, 2016 in association with the project partners IHS Markit and ICF. The workshop saw presence of Additional Secretary and Joint Secretary from MoP&NG, First Secretary (Energy and Climate); British High Commission, Gas market stakeholders etc.

The workshop was organised to present the result of Gas Market survey; identifying the key issues for accelerating India's transition towards gas based economy. While the survey result indicated

that majority of issues are pertaining to the policy and regulation, it was also felt that majority of them can be resolved during the next 2 years with proactive stakeholder engagement. Overall eight key issues were identified for which further detailed work was to be carried out. The session also pondered for the study of international best practices that will support the Gas Market creation in India.

The session saw deliberations on the suggested policy framework to facilitate the infrastructure development, expand existing markets and create new markets for enhancing gas share in the India's energy basket.



*Ms. Frances Hooper, First Secretary - Energy & Climate, BHC welcoming the participants.*



*Shri Ajay Prakash Sawhney, Additional Secretary, MoP&NG delivering the opening remarks.*



*Shri R. K. Garg, Director(F), Petronet LNG raising a query.*



*A section of the participants.*

**Conference on 'Executing Organisational Strategy: Leveraging the power of Project Management' held on September 2, 2016**

PetroFed and PMI Organisation Centre Pvt. Ltd. jointly organised a one day conference on September 2, 2016 on project management in Oil & Gas Industry. Theme of the conference

was 'Executing Organisational Strategy: Leveraging the power of Project management.'

Dr. R. K. Malhotra, DG PetroFed in his welcome address mentioned that considering enormous growth in Hydrocarbon sector, the timing of the conference is appropriate in generating awareness



*Dr. R. K. Malhotra, DG, PetroFed delivering the welcome address*



*Dr. R. K. Malhotra presenting the certificate*



among project executors. In the era of global competition, timely and right quality projects execution will provide long term strategic advantages to a company. Use of modern monitoring tools and coordinated approach by all stakeholders hold the key to these objectives.

Mr. Raj Kalady of PMI set the context of the conference and stated

### 3<sup>rd</sup> Stakeholder Workshop on 'Raising the Voice of Gas - Creating New Gas Markets' held on September 17, 2016

The 3<sup>rd</sup> gas stakeholder workshop on 'Raising the Voice of Gas - Creating New Gas Markets' was organized by IHS Markit, ICF & PetroFed on September 17, 2016 in Bengaluru. The workshop saw presence of Hon'ble Minister and Joint Secretary (marketing) from MoP&NG, CEO's and senior leaders from the Oil & Gas industry covering the entire gas value chain.

The workshop was organised to recommend steps for facilitating infrastructure development, expand existing markets and create new markets.



Shri Dominic McAllister, Deputy High Commissioner of United Kingdom welcoming Shri Dharmendra Pradhan, Hon'ble Union Minister of State (I/C) for P&NG with a bouquet.

In his concluding remarks DG, PetroFed said that besides exploring options to enable last mile access to consumers, the project partners aim to study global best practices to suggest regulatory frameworks to fast-track the growth of the gas market. On having wider reach of natural gas in the country, he assured support to suggested Gas Forum as a vertical of PetroFed which



Dr. R.K. Malhotra, DG, PetroFed proposing a vote of thanks.

that skill deficiency is the cause of all other issues delaying projects.

Executives from IOC, ONGC, GAIL, EIL, Petronet LNG, Amec Foster Wheeler, Technip, FLOUR Daniel India, L&T addressed the conference.

Shri Dharmendra Pradhan, Hon'ble Minister of Petroleum and natural gas stated that Bangalore is a city where everything starts, and that Bangalore is a good starting place for creating new gas markets. On the climate note, he said that India has committed to carbon emission reduction in the COP21 summit and gas will play a key role to achieve the same. Hon'ble Minister also suggested the group to make actionable plan and successful implementation strategy, where all parties are aligned and committed to enhance gas share.

The Deputy High Commissioner of United Kingdom, Mr. Dominic McAllister complimented Government of India on the amazing economic pace and significant policy and regulatory reforms.



Shri Dharmendra Pradhan addressing the participants.

would include all gas value chain participants from wellhead to burner tip.

IHS Markit, ICF and PetroFed made a presentation on the need for creating new markets while expanding the current markets through supportive policy push.



Shri S. Rath, Director(E&P) moderating the session.



*Session in progress.*



*Participants of the workshop.*

**Workshop on 'Changing Exploration Landscape of India: Breakthrough Ideas' held on September 28, 2016**

A workshop on the 'Changing Exploration Landscape of India: Breakthrough Ideas' was organized by PetroFed on September 28, 2016 to delve into the challenges and opportunities in the Indian E&P sector. As the demand for oil & gas is bound to grow, India needs to look forward to the increases in domestic production as well, failing which the pressure on imports would further escalate.

A number of policy reforms have been ushered in the recent past. Going forward, new ideas are required on the ground to

change the flat production of oil and gas scenario in the country.

The speakers, panelists and participants deliberated on key issues ranging from prospects of new discovery, understanding the basins based on the reprocessed data and interpretation, hydrocarbon potential in Andaman basins, focused exploration of Mesozoics etc.

It was felt that there is a need to develop suitable workflow and reach out to global technology providers and all stakeholders should work in tandem to harness E&P potential to the fullest through collaboration and seamless team work.



*Dr. R. K. Malhotra, Director General, PetroFed welcoming the participants.*



*Mr. Dylan Mair from IHS Markit delivering the keynote address on International Exploration Scenario.*



*Shri S.V. Rao, ED & CEO, Tata Petrodyne Ltd. delivering the keynote address on National Exploration Scenario.*



*Shri S. Rath, Director(E&P), PetroFed moderating the CEO Panel.*





Shri Amar Nath, Joint Secretary (E), Ministry of Petroleum & Natural Gas proposing the special address.



Shri N.K. Verma, MD, ONGC Videsh Ltd proposing the concluding remarks.

### **Training Program on 'Analysing Oil Markets: Global Perspective' during September 28-30, 2016**

PetroFed and JBC Energy Asia jointly organised a three days training program on 'Analysing Oil Markets : Global Perspective' from September 28-30, 2016 at Hotel Eros in New Delhi. The program covered all issues related to oil and refining in the global scenario. The program attracted good participation from member companies.

During the course of three-day programme, Mr. John Gorry of JBC Energy Asia explained the issues like demand-supply, geopolitics, technological development, pricing, non- conventional sources of oil & gas, environmental considerations etc., and their impact on oil and refining industry and outlook.

### **Expert Workshop on 'Getting Ready for the GST Regime' held on October 13, 2016**

With GST law under formation, an "Expert Workshop" was held on October 13, 2016 at Hotel Eros, Nehru Place, as a part of the series of workshops that have been conducted by PetroFed for GST.

This half day workshop that had been conducted in knowledge partnership with Deloitte basically focused on the operational aspects of GST implementation. Comprising of a specific congregation of industry members who are associated with the ground level implementation of GST, this direct and focused discussion enabled industry members to deliberate at the issues at the ground level.



Shri R. Bahl, Director (FT&L), PetroFed welcoming the participants.

Flagging under the theme of "Getting ready for the GST regime", this sector based approach directed towards the Finance /Tax heads served as a great platform to brain storm the impact of the GST issues and to plan the way forward. Attended by prominent participants across the Oil and Gas Industry-Upstream, Downstream, Service providers and Natural Gas Distribution companies, this workshop helped in clarifying many doubts raised by members with regard to grass root implementation of GST.

The workshop saw by Mr. Rajiv Bahl, Director (Finance, Taxation & Legal), PetroFed initiating formal introduction to the program and impressing upon the industry members the need for this workshop so as to explore the procedural aspects of GST implementation.

The overview and approach to the program was provided by Mr. Hemal Zobalia, Tax Leader - Energy & Resources - Deloitte. Mr. Y. Parande, Advisor, Tax - Indirect Tax, Deloitte provided his insights on the key challenges and approach from a governance perspective. As a Member CBEC, Retd, he was able to clarify the queries raised by the participants.

The presentation session was essentially divided in to two portions - challenges faced by upstream/ service providers/ natural gas distribution companies and challenges faced by downstream companies. Both these sessions were headed by Mr. Anoop Kalavath, Indirect Tax Partner - Energy & Resources, Deloitte who was able to gauge the nature of issues faced by the various sectors of the industry and address the same.



Mr. Hemal Zobalia, Tax Leader - Energy & Resources - Deloitte giving the overview and approach on the GST.



*A section of the participants*



*Mr. Anoop Kalavath, Indirect Tax Partner - Energy & Resources, Deloitte talked about the challenges faced by Upstream and Downstream companies.*



*Shri N V N Ramsai, ED, IOCL raising a point*



*Mr. Hemal Zobia delivering the closing remarks*



*Shri R Bahl responding to a query.*



*Mr. Y. Parande, Advisor, Tax - Indirect Tax, Deloitte; Member CBEC, Retd. giving the Key Challenges and approach from a governance perspective.*

**4<sup>th</sup> Stakeholder workshop on 'Raising the Voice of Gas - Building Gas Hub' held on October 13, 2016**

The 4<sup>th</sup> gas stakeholder workshop on 'Raising the Voice of Gas - Building Gas Hub' was organized by IHS Markit, ICF and PetroFed on October 13, 2016 at PDPU Campus, Gandinagar, Gujarat.

The workshop was organized to recommend steps for facilitating building gas hub and obtain views on unbundling of gas infrastructure. Students competition was organized to develop a plan for gas hub. The best team shared their presentation on gas hub at the workshop.



*Dr. Pramod Paliwal, Dean, School of Petroleum Management delivering his opening remarks.*



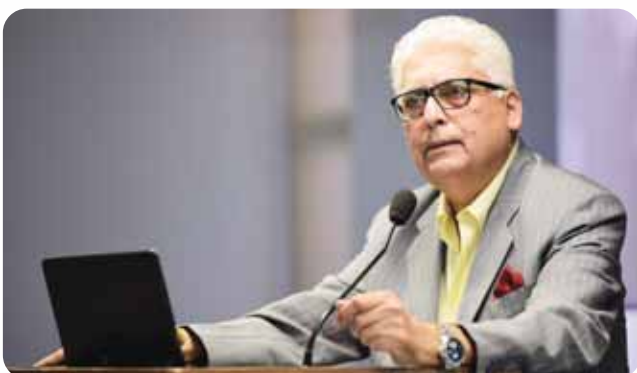
*Mr. Geoff Wain, Deputy High Commissioner, British high commission of India delivering his address.*



*Prof. T. K. Reddy, Director General, PDPU delivering his address.*



*Ms. Gauri Jauhar, IHS and Mr. Gurpreet Chugh, ICFI - Project Recap.*



*Shri Suresh Mathur, Founding CEO & MD, PLL - shared experience of development of Dahej Terminal.*



*Shri Rahul Deep Singh, MS, Hazira LNG - sharing learning from Hazira LNG.*





*Shri Pankaj Wadhwa, VP(F), PLL sharing learning from Gujrat.*



*Student presentation on 'Trading Hub' - Best team of PDPU.*



*Mr. Ron Kapavik, IHS sharing on 'Trading Hubs' in UK/ Europe/China*



*Mr. Mario Garcia, Head, Gas Natural delivering on gas infrastructure in Spain.*



*Panel discussion on Gas Hubs conducted by Shri Nitin Zamre, MD, ICFI*



*Shri. S. Rath, Director(E&P), PetroFed moderating the panel discussion on 'Unbundling Infrastructure'.*



*A section of the participants.*

## HR in Next Millennium "Challenges & Opportunities for Energy Sector" October 20, 2016, New Delhi

Role of HR in organizations is constantly evolving with changing VUCA environment. The HR team needs to be on its toes and ready to face challenges and take hold of opportunities emerging. To look at these challenges and emerging opportunities Petrotech organized one-day program on "HR in Next Millennium- Challenges and Opportunities for Energy Sector" on October 20, 2016 at New Delhi. 27 executives from different oil & gas companies participated in the program. The following major topics were presented during the program:

- Reigniting HR performance in Diversified workforce- Creating a culture of passion to drive business Growth
- Engaging & Retaining millennial in workforce
- Reinventing HR Learning & Development strategies
- HR 360<sup>o</sup> - The key takeaways



## 5<sup>th</sup> and final gas stakeholder workshop on 'Raising the Voice of Gas - Building Infrastructure and Technology' on November 22, 2016

The 5<sup>th</sup> and final gas stakeholder workshop on 'Raising the Voice of Gas - Building Infrastructure and Technology' was organized by IHS Markit, ICF & PetroFed on November 22, 2016 in New Delhi.

The workshop was organised to share the current status of gas pipeline infrastructure, city gas distribution in India and its implementation plan. The workshop also highlighted the recent technological developments happening in the gas sector i.e. fuel

cell technologies, use of LNG in transportation sector and development of efficient power generation system with use of gas.

The workshop also highlighted the key issues encountered by gas players in India with respect to investment in gas pipeline infrastructure, issues related to acquisition of Right of Use (RoU) to lay the pipeline and associated delays.

IHS Markit, ICF and PetroFed made a presentation on the above mentioned issues for highlighting the necessary changes / policy interventions needed for integrating new technology and development of gas pipeline infrastructure.



Shri S. Rath, Director(E&P), PetroFed delivering the opening remarks.



Mr. Daniel Bradley, First Secretary, Energy and Low Carbon Growth, British High Commission delivering the address.





Session on 'New Gas Technologies in India'.



Ms. Gauri Jauhar, IHS and Mr. Gurpreet Chugh, ICFI - Project Recap



Shri A.K. Balyan, CEO O&G, Ambani LED, Reliance Group participating in the discussion



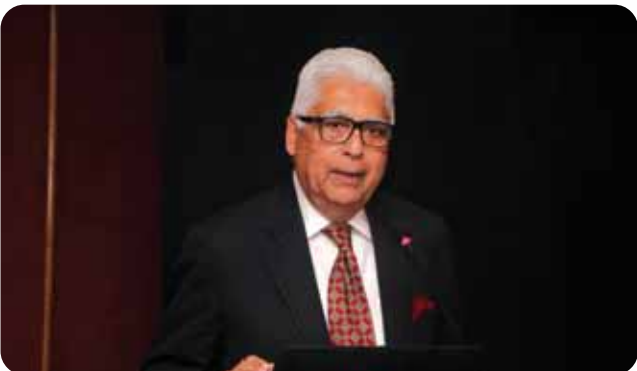
Shri R. S. Butola, former Chairman IOCL, giving his perspective.



Shri Pankaj Wadhwa, VP(F), PLL responding to a query



A section of participants.



Shri Suresh Mathur, Former CEO & MD, PLL sharing his views.



Session on 'Infrastructure: Issues and Best Practices'.



## **Navigating Change: Driving Your Organization's Improved Performance, November 30, 2016; New Delhi**

Change is the only constant is what we hear on an everyday basis. Organizations have to keep evolving and changing in view of regular changes in the business environment & aspirations of their employees. HR as well as technical professionals are involved in organizational initiatives to manage change and navigating change has become an important part of their jobs.

Petrotech in collaboration with Society for Human Resource Management (SHRM) organized a program on 'Navigating Change: Driving Your Organization's Improved Performance' on November 30, 2016 at New Delhi. 26 executives from different oil & gas companies participated in the event.

The program was delivered by International Expert - Todd Brodie, a Global HR and leadership development professional who continues to provide strategic support and coaching to leadership



teams and individuals located throughout North America, Latin America, Australia, New Zealand, West Africa, Saudi Arabia and the United Kingdom. His international experience includes leadership roles in insurance, financial services, hospitality, entertainment, casino and professional services industries in both human resources and in a front line capacity.

## **Half-day Seminar on 'Proactive Approach in Industrial Safety Management' on January 25, 2017**

Organised a half day seminar on "Proactive Approach on Industrial



*Dr. Harbans Lal Kaila, Emeritus Prof. of Psychology making the presentation on 'Behavioural Based Safety'.*

Safety Management" on January 25, 2017 at India Habitat Centre, New Delhi. About 35 participants from industry members participated.



*Sh. Dharendra Mishra, General Manager (HSE & SP), Hazira LNG & Port, Shell making his presentation on 'Integrated Approach to Process Safety Management for Safe Plant Operation'.*

## **Implications of the Union Budget 2017 on the Oil & Gas Sector - Delhi held on February 2, 2017**

Continuing with the tradition of organising an annual event every year, post announcement of Union Budget, FIPI conducted a workshop on post budget analysis and its impact on the oil and gas sector in knowledge partnership with Deloitte on February 2, 2017 at New Delhi.

At the onset Mr. Rajiv Bahl, Director (Finance, Taxation & Legal), FIPI welcomed the guests and impressed upon them as to how the implications of the budget are expected to reflect on the oil and gas sector. Dr. R.K. Malhotra, Director General, FIPI in his opening remarks while highlighting the policy decisions implicating the oil and gas sector in the latest Union budget, also stated the recommendations that were submitted by FIPI

on behalf of the oil and gas industry. While expressing delight on the policy decisions with regard to LPG, it was also highlighted that clarity on inclusion of all petroleum products under the field of GST was still awaited. The integration of oil companies into a 'Major' and the far reaching impact of the same were also stressed upon.

Dr. Laveesh Bhandari, Director, Indicus Foundation gave his insight on the current state of the Indian economy. While he clearly stated that global turbulence has always had a knowing impact on the Indian economy, he clearly stated that fundamentals of Indian economy need to be strengthened. While expressing concern on the law and order situation of the country which acts as an impediment to economic development, he emphasised the need to simplify the tax laws such as GST to facilitate the steady transition from informal economy to a formal one.



*Mr. Rajiv Bahl, Director (FT&L), FIPI welcoming the participants.*

Mr. Hemal Zobalia, Partner, Deloitte Haskins & Sells LLP started the budget analysis session and set the context of the program. The direct tax implications were discussed by Mr. Hemal Zobalia, Partner & Mr. Sujit Parakh, Partner, Deloitte Haskins & Sells LLP and the indirect tax implications were discussed by Mr. Atul Gupta, Senior Director, Deloitte Haskins & Sells LLP.

A panel discussion constituting Mr. R.K. Garg, Director (Finance), Petronet LNG; Mr. Kartikeya Dube, Director - Tax, BP; Mr. R.K.



*Dr. R. K. Malhotra, DG, FIPI delivering the opening remarks*

Sethi, Executive Director (CF), IOCL and Ms Gauri Jauhar, Director, Consulting & Research at IHS Markit was held and moderated by Hemal Zobalia. The policy decisions stated in the Union Budget were discussed at length with the panellists deliberating on the efficiencies as well as challenges concerning the creation of a 'mammoth.' Also discussed were the recommendations submitted to the government for reduction of import duty on LNG from 5% to zero percent and how the reduction to 2.5 percent is a step in the right direction.



*Panel discussion - Industry Observations on Direct and Indirect Taxes implications moderated by Hemal Zobalia.*



*Mr. R.K. Garg, Director (Finance), Petronet LNG presenting industry perspective.*

### **Budget Analysis - Union Budget 2017 and its impact on Oil and Gas sector - Mumbai held on February 3, 2017**

The Mumbai chapter of the post budget analysis program was held at Grand Salon hall, Grand Hyatt on February 3, 2017 in knowledge partnership with Deloitte. In continuance with the

tradition of FIPI, this workshop was conducted to analyze the impact of the Union Budget on the Oil and Gas sector.

At the onset Mr. Rajiv Bahl, Director (Finance, Taxation & Legal), FIPI welcomed the guests and impressed upon them as to how the implications of the budget are expected to reflect on the oil



*Mr. P. Balasubramanian, Director (F) BPCL delivering the opening remarks.*



*Mr. Debasish Mishra, Partner, Deloitte Touche Tohmatsu India LLP giving a comprehensive snapshot of Union Budget means for the Oil and Gas industry.*





Mr. Hemal Zobalia, Partner, Deloitte Haskins & Sells LLP presenting Direct Tax Implications of the Union.

and gas sector. He also delved upon several critical issues like bringing all petroleum products under the fold of GST, clarity on levy of service tax on royalty on oil exploration, reduction in OID cess and the pressing need to introduce new incentives to bring in more investments in the Oil and Gas sector. Mr. P. Balasubramanian, Director (Fin.) BPCL in his opening remarks gave us an insight into the policies presented in the Budget. He especially commented on the threefold unique nature of this budget - this was the first time that the Union Budget was being held on Feb 1 instead of Feb 28, the merger of the railway budget with the Union Budget and the removal of plan and non-plan expenditure layout of the budget. The latter would provide a holistic view of plans of the government.



Mr. Anoop Kalavath, Sr. Dir, Deloitte Haskins & Sells LLP delivering the presentation on Indirect Tax Implications.

Mr. Debasish Mishra, Partner, Deloitte Touche Tohmatsu India LLP gave a comprehensive snapshot of what the Union Budget means for the Oil and Gas industry. Mr. Hemal Zobalia, Partner, Deloitte Haskins & Sells LLP discussed the direct tax implications of the budget while the indirect tax implications were discussed by Mr. Anoop Kalavath, Sr. Director, Deloitte Haskins & Sells LLP.

A panel discussion constituting Mr. V.K. Jain, ED - Tax, HPCL, Ms. Bela Mao, Tax Director, Shell, Mr. R.G. Subramaniam, Sr. VP Tax, RIL was held and moderated by Mr. Hemal Zobalia, Partner, Deloitte Haskins & Sells LLP. A very well engaged and highly interactive session on the implications of lack of inclusion of all petroleum products under the field of GST was conducted. Also discussed were the challenges and efficiencies associated with creating a "Mammoth".



Panel discussion - Industry Observations on Direct and Indirect Taxes Implications moderated by Hemal Zobalia, Partner, Deloitte Haskins & Sells LLP.



Mr. Rajiv Bahl, Director (Finance, Taxation & Legal), FIPI responding to a query.



A session of a participant.



Group photograph.



## R&D Conclave 2017 held during February 16-18, 2017

Federation of Indian Petroleum Industry (FIPI) along with industry partners organised 'R&D' Conclave during February 16-18, 2017 at Mussoorie, Uttarakhand. The conclave on the theme "Ideas are here" covered topics including innovation, intensification, catalysts in refining & petrochemicals, upstream, emerging technologies, operational efficiency improvement and panel discussion on issues related to policy, investments and commercialization etc.

In the inaugural session Dr. Anil Kakodkar, Chairman, Scientific Advisory Committee (SAC) on Hydrocarbons, MoP&NG and INAE Satish Dhawan Chair of Engineering Eminence, BARC underlined the importance of new ideas in the research domain to secure an energy sustainable future. He also emphasized upon policy interventions for human skill management being an important

pillar of research and development. The conclave covered various on-going R&D activities in the oil & gas industry (Upstream, Midstream & Downstream) as well as Alternative Energy. The event had presence of around 100 delegates participating representing the entire spectrum of oil & gas sector.

28 speakers from national and international organizations made presentation on various themes. With the changing energy landscape, it was opined that hydrocarbon companies should aim to become integrated energy companies. In order to achieve the same research, endeavors will be needed to go beyond traditional domains to the new and alternative energy resources which have the potential to change the future energy landscape. It was also felt that going forward collaboration is the key as it will act as force multiplier to achieve the long term research objectives.



*Dr. R. K. Malhotra, Director General welcoming the participants.*



*Inauguration of the conclave.*



*Dr. S. S. V. Ramakumar, Dir (R&D), IOCL giving his perspective on Futuristic Energy Sources.*



*Chief Guest Dr. Anil Kakodkar, Chairman, SAC on Hydrocarbons, MoP&NG and INAE Satish Dhawan Chair of Engineering Eminence, BARC delivering the inaugural address.*



Session-II on Refining and Process Intensification



Session-IV on R&D in Upstream.



Session-VIII on Panel discussion on 'Issues Related to Policy, Investments and Commercialization'.



Mr. S. Rath, Director (E&P), FIPI presenting the conference brief on Upstream.



Mr. N.K. Bansal, Director (Oil Refining & Marketing), FIPI delivering the conference brief on Downstream.



Concluding Session with CEOs / R&D Heads on Road map for R&D



Dr. R. K. Malhotra delivering the vote of thanks.



Q&A session in progress.



**Workshop on "EOR - Expanding Horizons: Creating Values" held on March 15, 2017 at New Delhi**

A workshop on the "EOR- Expanding Horizons: Creating Values" was organized by FIPI to delve into the developments of EOR activities across globe, Indian case histories and its potential in India. Although GOI has taken a number of policy initiatives to enhance E&P activities, it is still important for India to focus on mature fields to expeditiously enhance production / arrest decline in production.

During the session it was discussed that dependence on oil & gas imports has increased significantly due to declining domestic production. Examples of various countries highlighting targeted incentives for matured and producing fields to ramp up production was shared. Considering Indian reserves, a 1% increase in recovery factor will be equivalent to 5 months of oil production.

The speakers highlighted an important aspect of the need of management and technical people who are able to conceptualize, carry out research in laboratory and can take it from field pilot to commercial level in a short period. There should be partnerships of universities with industry in EOR pilot projects. As the EOR projects require long term commitments along with higher capital and operating expenditure, governments have a significant role to play at all levels by providing incentives, develop regulations and also to provide direct support.

Hon'ble Minister of State (I/C) for Petroleum & Natural Gas, Shri Dharmendra Pradhan was present during the concluding session of the workshop and addressed the participants. He announced that with the suggestions provided by the industry stakeholders today, EOR should be incentivized and Government of India will come out with a new progressive EOR policy.



Mr. S. Rath, Director(E&P), FIPI welcoming the participants.



Mr. T. K. Sengupta, Dir (Offshore), ONGC delivering the opening remarks.



Q&A session in progress.



Session 2 on EOR - The Game Changer chaired by Mr. Sidhartha Sur, ONGC.



Session 1 on 'Enhancing value from matured oil & gas fields' chaired by Dr. Raj Mehta, University of Calgary, Canada.





Panel discussion on 'EOR Enablers - Role of an enabling policy framework to leverage EOR potential in India' moderated by Mr. S. Roychaudhury, Cairn.



Concluding session. (L-R) Mr. Sivakumar Potheepalli, Dir RJ Oil, CAIRN; S. Rath, Dir (E&P), FIPI; Shri Dharmendra Pradhan, Hon'ble Minister of State (I/C) for P&NG ; Mr. T. K. Sengupta, Dir (Offshore), ONGC; Dr Raj Mehta, University of Calgary, Canada, Dr. Raj Mehta, University of Calgary, Canada. address.



Shri Dharmendra Pradhan, Hon'ble Minister of State (I/C) for P&NG delivering the address in concluding session.

### Workshop on Totality of Project Management held during March 16-18, 2016

PetroFed had organised three days workshop on 'Totality of Project Management' in New Delhi in association with International Institute of Projects & Program Management (i2P2M) and Centre For Excellence in Project Management (CEPM) from March 16-18, 2016.

The program covered 100 plus concepts of Project Management & 36 knowledge areas during the workshop. The program was very well received by the participants. The program ended with Certification Examination and award of Certificate in Project Management.

2. Your Federation is being increasingly sought as a partner of choice by various national and international organisations to support them in their events without any financial commitment. We have been selectively acceding to such requests wherein our logo is used in all the event literature as a supporting organisation. We attempt to get a discount for FIPI member companies and in return circulate their mailer

to members and post the event details on our website. They also offer complimentary participation to one or more FIPI officials. This has helped to enhance the visibility of the Federation both at national and international level.

The major events where your Federation was actively associated were:

- a) M/s Diligentia Services for 2<sup>nd</sup> Annual Gas Submit 2016 during April 27-28, 2016 at New Delhi.
- b) Argus Asian Petroleum Coke 2016 during April 27-28, 2016 at Mumbai.
- c) NACE International Cathodic Protection Program (CP2) - Training & Certificatio during May 30 - June 4, 2016 at Mumbai
- d) Seminar on Army's Fuelling Needs : Future Outlook during June 29, 2016 at Delhi
- e) Conference on 'How to Survive in low oil & gas price Scenario during June 30, 2016 at New Delhi.

## Guest Lecture

Under our series of Guest Lectures and Thought Leadership Programmes, the following lectures were organized:

1. Guest Lecture on 'International Corrosion Impact Study: Learning for Oil & Gas Industry' in collaboration with NACE International on April 25, 2016. Sh. M.A. Pathan chaired the session.

Ms Elaine Bowmen, past President of NACE made presentation on the outcome of their global study on the Impact of Corrosion with specific reference to Asia Pacific



*Dr. R. K. Malhotra, Director General, PetroFed welcoming Ms Elaine Bowmen, past President of NACE with a bouquet of flowers.*

and India. The study, initiated by the NACE to examine the role of corrosion management in the industry and government and to establish the best practices, estimates the global cost of corrosion at USD 2.5 trillion which is equivalent to 3.4 % of global GDP.

Ms Elanie Bowmen mentioned that about 15-35% of the cost can be realized by using available control practices. Awareness through education will improve corrosion management thus productivity.

2. Guest Lecture on 'Environmental & Health Benefits of LPG, the Clean Cooking fuel' by Prof. Kirk R. Smith, a Professor of Global Environmental Health, University of California was held on July 1, 2016.



*Shri M. A. Pathan, former Chairman, Indian Oil and former Resident, Director Tata Group (6<sup>th</sup> from left) chairing the session.*



*Ms Elaine Bowmen making the presentation..*

Several eminent personalities and experts from Hydrocarbon Sector including Mr. Ashutosh Jindal, Jt. Secretary (M&GP), Ministry of Petroleum & Natural Gas, Govt. of India, amongst other distinguished participants attended the lecture. The talk emphasized the health benefits by switching over from biomass to LPG for cooking and gave a global perspective on the health of the world's poor.

While delivering the welcome address, Dr. R.K. Malhotra, Director General, PetroFed said, "According to WHO rule of 1000 a pollutant released indoors is one thousand times more likely to reach people's lungs than a pollutant released outdoors". Dr. Malhotra added that, we need to have a long term strategy for providing affordable access to LPG or other clean fuel to every citizen of our country.

Prof. Smith said, "Typical biomass cook stove releases 400 cigarettes per hour worth of smoke. The percentage of air pollution mortality from household fuels like biomass in India is 25%-50%, compared to global level of 14%-30 %".

The 2007 Nobel Peace Prize winner, Prof. Smith mentioned that in the year 1990 around 700 Million (85%) and in the year 2010 still around 700 million (60%) people were using the solid fuels for cooking.

During his talk, Prof. Smith lauded Govt. of India's initiative of spending Rs. 8000 crores in three years solely on providing clean fuels to the poor population of India. However, he said that more efforts are still needed to encourage usage of LPG especially in rural areas.



Dr. R.K. Malhotra, DG, PetroFed delivering the opening remarks.



The dignitaries during the inaugural session (L-R) Prof. Kirk R. Smith, Mr. Ashutosh Jindal, JS (M&GP), MoP&NG and Dr. R.K. Malhotra, DG, PetroFed.



Prof. Kirk R. Smith addressing the gathering during his lecture



Mr. Ashutosh Jindal, Jt. Secretary (M&GP), MoP&NG sharing his views and giving the concluding remarks.

3. Talk on 'Impact of Shale Revolution on Oil Markets & Related Public Policy Issues' by Mr. Greg Priddy, Director, Global Energy & Natural Resources, Eurasia Group, USA was organized on October 10, 2016.

During the session, Mr. Priddy spoke about the emergence of shale oil and gas in US. He also talked about how recent geopolitical supply disruptions have masked US shale

volume growth from 2012-2014. He further discussed about the role of market structural factors like OPEC and non-OPEC countries on the shale market outlets. Speaking on the North America energy policy and regulatory update, Mr Priddy highlighted key factor that will shape the future of shale oil in US. The talk which covered diverse political, regulatory & energy policy issues was well received by the industry participants.



Shri R.K. Malhotra, Director General, PetroFed welcoming the participants.



Mr. Greg Priddy, Director, Global Energy & Natural Resources, Eurasia Group making his presentation.





Shri Suresh Mathur, Founding CEO & MD, Petronet LNG Ltd raising the query.



Dr. C.R. Prasad, Former CMD, GAIL sharing his views.

4. A talk on Gas Hydrates was organized by PetroFed and Energy Think Tank on October 27, 2016 at India Habitat Centre, New Delhi. Eminent members of Energy Think Tank and invited officials from DGH, ONGC, OIL, GAIL and IOCL etc participated.

Dr. C. R. Prasad, ETT Convenor gave a brief account of status of Gas Hydrate exploration in India and provided introduction of the speakers. Dr. Avinash Chandra, Dr. Pushpendra Kumar and Shri. Sunil Kumar Singh made detailed presentation on

'Gas Hydrates' covering the initiative, present status, resources available and way forward.

The participants from different organizations conveyed thanks profusely for the informative session on Gas Hydrates and good work done so far.

Suggestions/ Recommendations arising out of the talk & discussion have been forwarded to MoP&NG, NITI Ayog & DGH.



Shri S. Rath, Dir(E&P), PetroFed welcomed the ETT members, speakers and participants.



Dr. C. R. Prasad, ETT Convenor giving the brief account of status of Gas Hydrate exploration in India.



Dr. Avinash Chandra, former DG, DGH and Member ETT making a presentation on "Gas Hydrates in India & The National Gas Hydrate Program (NGHP 1999 to 2005)"



Dr. Pushpendra Kumar, GM (Chem), Head-Gas Hydrate Research & Technology Centre (GHRTC) from ONGC delivering a presentation on "Gas Hydrate Technology & Developments".



Shri Sunil Kumar Singh, HOD (Alternate Energy), DGH delivering a presentation on "Gas Hydrates, A potential energy source of 21st century".



Shri B. C. Bora, ETT Member raising a point.



Shri Anil Razdon, ETT Member giving his perspective..



Shri Suresh Mathur, Founding CEO & MD, PLL and ETT Member raising the query.



Shri G. C. Chaturvedi, former Secretary MoP&NG and ETT Member giving his perspective.



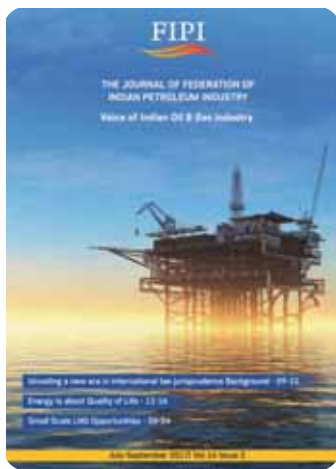
A section of the participants and Dr.C R Prasad responding to the query.

## Enrolment of Members

After amalgamation members of erstwhile PetroFed & Petrotech merged and your Federation is having 82 members on March 31, 2017.

A list of member organisations at the end of the financial year is enclosed as Annexure (I).

## FIPI Journal



The quarterly FIPI Journal is regularly produced and has been widely appreciated in content and contribution by member companies and recipients alike. The Journal is also available on the website of FIPI. To partially defray expenses of publication we also accept a few advertisements from member companies.

## Weekend Reading

Aiming to keep our members updated on the latest developments in the field of oil & gas, we bring you the latest news and energy stories from across the globe and provide various reports & analysis on a wide range of subjects.

Its our constant endeavour to improve its quality & provide you reading material of your choice every week.

### Oil Price



### Global Oil & Gas



## Indian Oil & Gas



## Non-Conventional Energy



## Special Reports



## Website

The FIPI website [www.fipi.org](http://www.fipi.org) carries information about the Federation and its activities which is regularly updated. It is proposed to enrich it further with assistance from members and other organizations in the hydrocarbon sector.



## Accounts 2016-17

The Audited Balance Sheet for the year 2016-17 along with the Income & Expenditure Account is enclosed as Annexure (II).

I take this opportunity to acknowledge the support of member companies and the various committees, the guidance of the Governing Council and the contribution of the Federation's secretariat in furthering the objectives of the Society.

New Delhi  
November 13, 2017

**Dr. R. K. Malhotra**  
Director General



# FIPI



**Federation of Indian Petroleum Industry**

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