



An Orientation Workshop on  
**SHALE GAS**  
A Global Energy Alternative  
6<sup>th</sup> – 7<sup>th</sup> January 2011 • PDPU Campus • Gandhinagar

in association with

**MEWBOURNE** *of* **SCHOOL**  
*Petroleum & Geological Engineering*  
The University of Oklahoma



Pandit Deendayal  
Petroleum University

The University of Oklahoma

## **Programme – Day 1:**

**09:00 – 09:30 hrs**

**Registration of Delegates & Networking Breakfast**

**0930 – 1030 hrs**

### **Inaugural Plenary**

The Inaugural Plenary will set the tone for “An Orientation Workshop on Shale Gas” and present a comprehensive overview of the future outlook of the Indian Oil & Gas Industry. The emphasis will be on brainstorming on key ideas that will shape the future of the Indian Shale Gas players, understanding emerging growth models in the industry and their impact, assessing imperatives for stakeholders in the changing industry outlook and finally capturing views on the essence of sustainable growth across each value chain element.

The Plenary will provide an understanding of ideas that will drive the “Shale Gas Exploration & Exploitation” and of perspectives of different stakeholders on the growth agenda and therefore will emphasize on focused action agenda for key stakeholders – Industry, Suppliers and Government.

09:30 – 09:35 hrs	<b>Invocation</b>	
09:35 – 09:40 hrs	Lighting the Lamp	
09:40 – 09:45 hrs	Welcome and Introductory Remarks	<b>Prof. Paritosh K Banik</b> Director General, <b>PDPU</b>
09:45 – 09:55 hrs	The Workshop & its objectives	<b>Dr. Chandra Rai</b> Director and Eberly Chair Professor, <b>MPGE</b>
09:55 – 10:05 hrs	Guest Address	<b>Mr. Anil Johri</b> ED, <b>ONGC – Ahmedabad Assets</b>
10:05 – 10:15 hrs	Guest Address	<b>Sh. Tapan Ray, IAS</b> MD, <b>GSPC</b>
10:15 – 10:25 hrs	Chief Guest Address	<b>Dr. A K Balyan</b> MD & CEO, <b>Petronet LNG</b>
10:25 – 10:35 hrs	Guest of Honour Address	<b>Sh. D J Pandian, IAS</b> PS – <b>Energy &amp; Petrochemical Department</b> Chairman, Standing Committee, <b>BOG-PDPU</b>
10:35 – 10:40 hrs	Concluding Remarks	<b>Dr. Anirbid Sircar</b> Convener, <b>Workshop on Shale Gas</b>
10:40 – 10:41 hrs	<b>National Anthem</b>	
10:41 – 11:00 hrs	<b>Tea / Coffee Break</b>	



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### **Plenary I: 1100 – 1300 hrs: Experience from US Oil & Gas Industry on Shale Gas:**

11:00 – 11:40 hrs	Overview of North American Gas Shales	<b>Dr. Chandra Rai</b> Faculty Member <b>MPGE</b>
11:40 – 12:20 hrs	Gas Storage and Transport in Organic Shale	<b>Dr. Yucel Akkutlu</b> Faculty Member <b>MPGE</b>
12:20 – 13:00 hrs	Petrophysical Considerations in Evaluating and Producing Shale Gas Resources	<b>Dr. Carl Sondergeld &amp; Dr. Chandra Rai</b> Faculty Members <b>MPGE</b>
13:00 – 14:00 hrs	<b>Lunch Break</b>	

### **Plenary II: 1335 – 1450 hrs: India Energy Inc. – Agenda on Future Fuel:**

14:00 – 14:25 hrs	Integrated workflow and the technologies necessary for evaluation and exploitation of Shale gas prospects	<b>Mr. Anil Swani</b> Vice President <b>Schlumberger Asia Services Ltd.</b>
14:25 – 14:50 hrs	Shale Gas Prospect and Challenges with Indian perspective	<b>Mr. Prem Sawhney</b> Chief Operating Officer <b>Essar Group</b>
14:50 – 15:15 hrs	Understanding the Reservoir First: Fracture Optimization	<b>Mr. Dario Stemberger</b> Region Technical Specialist, Stimulation <b>B J Services Company</b>
15:15 – 15:30 hrs	<b>Tea / Coffee Break</b>	

### **Plenary III: 1505 – 1605 hrs: Structural & Log Studies of Shale Gas:**

15:30 – 16:10 hrs	Micro- structural Studies of Gas Shales	<b>Dr. Carl Sondergeld &amp; Dr. Chandra Rai</b> Faculty Members, <b>MPGE</b>
16:10 – 16:35 hrs	Role of advanced log in determining shale gas reservoir and completion quality	<b>Ms. Arpana Sarkar</b> Senior Petro physicist <b>Schlumberger Asia Services Ltd.</b>
16:35 – 17:00 hrs	<b>High Tea</b>	
20:00 – 21:30 hrs	<b>Dinner</b>	



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**Programme - Day -2:**

09:30 – 10:00 hrs

**Breakfast**

**Plenary IV: 1000 – 1110 hrs: Shale Gas Challenges:**

10:00 – 10:45 hrs

Considerations for Well completion and  
Stimulation of Shale Gas Reservoirs

**Dr. Subhash Shah**  
Faculty  
**MPGE**

10:45 – 11:10 hrs

Awareness and challenges in development  
Of Shale gas in Cambay basin in western  
part of India

**Mr. P K Kulkarni**  
Project Director  
Joshi Technologies

11:10 – 11:30 hrs

**Tea / Coffee Break**

**Plenary V: 1130 – 1245 hrs: Shale Gas Challenges (Contd.):**

11:30 – 11:55 hrs

Challenges and opportunities of Shale Gas  
as future fuel

**Prof. G P Karmakar**  
Director  
School of Petroleum Technology

11:55 – 12:20 hrs

Potential Shale Gas Basins of India:  
Possibilities and Evaluations

**Dr. V K Rao**  
Sr. Vice President & OSD  
(E&P and Gas Business) RNRL

12:20 – 12:45 hrs

**Mr. Sumit Bhat**  
Country Manager  
(Production Enhancement Division)  
Halliburton India

12:45 – 13:45 hrs

**Lunch Break**

**Plenary VI: 1345 – 1450 hrs: Shale Gas Play:**

13:45 – 14:25 hrs

Rock Typing in Gas Shales

**Dr. Chandra Rai & Dr. Carl Sondergeld**  
Faculty Members  
**MPGE**

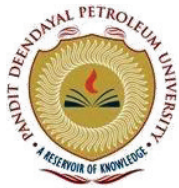
14:25 – 14:50 hrs

Identification of Shale Gas Play

**Mr. Subir Dutta**  
Sr. Officer – Geo Sciences  
**GSPC**

14:50 – 15:10 hrs

**Tea / Coffee Break**



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### **Plenary VII: 1510 – 1550 hrs: Technical Studies on Shale Gas Potential in India:**

15:10 – 15:25 hrs	Analysis of Sedimentary Basins for Shale Gas Prospects	<b>Dr. P V L P Babu</b> Shale Gas Expert Retd. DGM, ONGC
15:25 – 15:50 hrs	Potential of various zones located in Olpad and Cambay formations which could form attractive targets for Gas Shales in Cambay basin	<b>Mr. R N Pandey</b> General Manager – R & D GSPC
15:50 – 16:15 hrs	<b>Tea / Coffee Break</b>	

### **1615 – 1715 hrs: Interactive Roundtable: “Shale Gas – A Global Energy Alternative”**

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Moderated by:

**Dr. Anirbid Sircar**

Faculty Member – DPU

#### **Panel Discussion**

The aim on the round table is to brainstorm the possibility of introducing shale as a global energy alternative in commercial quantity in India. The group will explore the challenges that required to be mitigated to explore and exploit shale gas in commercial quantity.

The outcome of the brain storming session is to prepare a white paper on shale gas research in India and to develop a “Centre of Shale Gas Research.”

#### **Dr. Chandra S Rai**

Director and Eberly Chair Professor  
MPGE

#### **Dr. Subhash Shah**

Stephenson Chair Professor  
Division  
MPGE

#### **Dr. Carl Sondergeld**

Curtis Mewbourne Professor  
MPGE

#### **Dr. G P Karmakar**

Director, School of Petroleum Technology  
DPU, Gandhinagar

#### **Mr. P K Kulkarni**

Project Director  
Joshi Technologies

#### **Mr. Sumit Bhat**

Country Manager - Production Enhancement  
Halliburton India

#### **Mr. Dario Stemberger**

Region Technical Specialist, Stimulation  
B J Services Company

**17:15 – 17:30 hrs**

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**Workshop Wrap Up**