



RAJIV GANDHI COLLEGE OF ENGINEERING, SRIPERUMBUDUR.



# PETRO TALK

“ A quarterly magazine of petroleum engineering department”



## *Editor*

Mrs. K.Priyadharshini,  
Asst. Prof, Dept. of PE,  
RGCE, Sriperumbudur, TN 602105

[www.rgce.edu.in](http://www.rgce.edu.in)

Mob.No: 7845982285

Email id: [dharschinchemical@gmail.com](mailto:dharschinchemical@gmail.com)

## *Co-Editors*

Teffy Sam, III-Yr, PE, RGCE

Praveen Nirmal Das, III-Yr, PE, RGCE

Praveen Raj, II-Yr, PE, RGCE

## **FOREWORD**



**It is a great pleasure to present the news magazine PETRO TALK, first news letter of Petroleum Engineering department of RGCE. Off late, the department has made new strides in many fields. News letter is an effective tool to communicate with academia, industry and our own students.**

**Petroleum Engineering education is unique, as it has to have larger interaction with industry and professionals. Help and support rendered by industry and professionals to impart industrial visits, project training, guest lectures, conference, etc., is highly acknowledged.**

**SPE chapter of the department is very active and has organized NCUHR 2015 recently with support of SPE Chennai section, ONGC and other oil companies.**

**Your valuable inputs will help in enhancing contents of the subsequent editions of Petrotalk.**

**With best wishes**

**Lt. Col. (Prof) Jitendra Prasad**

**Dean & HOD**



The Petroleum Engineering department at Rajiv Gandhi College of Engineering was established in 2005, making it the first department of Petroleum Engineering in South India. Today the department has expert faculty, a host of

dedicated staff, state of the art laboratories, education programs and professional association that enrich with strong fundamentals and hands-on-experience.

Graduates of our program are in demand in private industry, as evidenced by the strong job market and high salaries. The petroleum industry offers a wide range of employment opportunities for petroleum engineering graduates. Exciting experiences range from field work in drilling and producing oil and gas fields to office jobs in small towns and cities. Worldwide travel & overseas assignments are available for interested students.

The college is making all efforts to impart quality education and mould the students to acquire necessary skills to take up challenging assignments after obtaining their degrees.

The academic year 2014-15 for UG course commenced as per guidelines of Anna University. Apart from class room teaching, students are given exposure to latest developments/technologies by arranging Guest Lectures and industrial visits. Students are also encouraged to present technical papers and participate in technical events to develop their technical and communication skills. Quite a few students of our college have won prizes in these events.

## **ANNUAL INAUGURAL CEREMONY OF SPE RGCE STUDENT CHAPTER**

**Date: 6<sup>th</sup> August 2014**



The Annual Inaugural Ceremony of the biggest Student Chapter – SPE RGCE Chapter was held. New working committee was elected. The Chief Guest was Dr. JOYSULU, ED – Basin Manager, Cauvery, and ONGC. Other senior officials from ONGC and SPE, Chennai were also present.



## COMMITTEE MEMBERS OF SPE

President Secretary Treasurer Tech. Head  
Arafat Osman Aman Hamza Aishwarya Gururajesh



Creative Head Mem. Head J. Sec. J. Trea.  
Gregori Allan Victoria Ganeshraja Venkatesh

## AFFILIATION TO APG



We were happy to inform that the Association of Petroleum Geologists affiliation had been approved.

1. Faculty Coordinator – Mr. D. Naga Ramesh
2. President – R. Ashwin Binth
3. Vice President – K.A.G. Sudharshan

## WORKSHOP/CONFERENCE

### 19<sup>TH</sup> MIDDLE EAST OIL AND GAS SHOW & CONFERENCE



Students from our college participated in the international conference held at the Bahrain International Conference Convention center from 08.03.2015 to 13.03.2015. As a

part of conference they attached an international quiz competition called “PETROBOWL” in which our final year students Vignesh, Faizal Ahamed, MuthuKrishnan, Arun.R and Arafat Osman participated and won 4<sup>th</sup> place.

## SPONSORSHIP

Mr. Vignesh received a scholarship amount of Rs.35000 to attend PETROBOWL an international quiz competition at Bahrain by the college management.

## WORKSHOP AT IIT, KARAGPUR

IIT Kharagpur department of geology and geophysics conducted PRTHVI'15 geology fest & workshop on 20-22 of March supported by SEG, SPG, and AAPG student's chapters of IIT Kharagpur. Venkatesh. A petroleum engineering department from RGCE was selected as campus ambassador by team PRITHVI. Along with eleven of our students participated in PRITHVI.

Workshop was conducted CAIRN India, ONGC and Schlumberger engineers on core analysis and formation evaluation. Akhil Joji III yr. received a token of appreciation form CAIRN India.

## APPLIED TECHNOLOGY WORKSHOP

Our student Muhammad Riyas of final year petroleum engineering had been selected to attend the SPE ATW on HPHT – *Tackling Challenges & Finding Solutions* at Hyatt Regency Hotel, Chennai on 15<sup>th</sup> and 16<sup>th</sup> May 2015.

## III- INTERNATIONAL CONFERENCE ON PETROLEUM SCIENCE AND TECHNOLOGY 2014 (ICPST-



2014) Dean & HOD made a keynote address on ‘*Role of academic-industry interface in education and research for oil and gas industries*’. 20 of our students participated in

the conference and 1 technical paper had been presented.

### ***DEAN&HOD – CHAIR PERSON OF SPE, CHENNAI REGION***

It is a matter of pride that our Dean & HOD, Lt.Col. Jitendra Prasad had been selected as the Secretary of the student chapter Society of Petroleum Engineers (SPE), Chennai region.

### ***SYLLABUS COMMITTEE***

Dean and HOD, Lt.Col. Jitendra Prasad was made as a member of the syllabus committee for Petroleum Engineering & technology by Vice Chancellor, Anna University.

### ***VISITING FACULTY***

To impart quality education to our students we have visiting faculties from renowned industries and oil companies. It will help our students to acquire and gather knowledge more practically.

1. Dr.C.Ravindran (ex. GM Geology, ONGC)
2. Mr.V.Rangachari (ex. ED, ONGC)
3. Mr. Sengupta (ex. CG, ONGC)

### ***SPE DISTINGUISHED LECTURE PROGRAM***

**Date: 25<sup>th</sup> April 2014**

Talk on “Hydraulic Fracturing Myths Reality and Environmental Stewardship through Better Chemistry” by Mr. Dan Daulton

**Date: 9<sup>th</sup> July 2014**

Talk on “Development of Mature Fields: EOR Options” by Mr. Tayfun Badbaagli

**Date: 3<sup>rd</sup> September 2014**

Talk on “Fracturing Fluids: How to Fracture with less or no water” by Dr. D V Satyagupta, Baker Hughes.

**Date: 15<sup>th</sup> September 2014**

Talk on “Exploration and Exploitation of HPHT Wells” by Mr. P. Raja, GGM – Head COD – HPHT, ONGC, Chennai.

### ***INDUSTRIAL VISITS***

**Date: 16<sup>th</sup> – 19<sup>th</sup> September 2014**

A four day IV for Final year PE students at Regional Geosciences Laboratory, ONGCL, Chennai.



**Date: 17<sup>th</sup> – 18<sup>th</sup> September 2014**

Drilling Rig Visit for Second year students at PR-ONN-2005/1 Block, E-760-3 Rig, ONGCL, Palar Basin.



**Date: 13<sup>th</sup> – 19<sup>th</sup> September 2014**

Industrial Visit for Third year students at National Institute of Oceanography and IPSHEM, Goa



**Date: 19<sup>th</sup> – 27<sup>th</sup> September 2014**

Industrial Visit for Final year students at WSS – Ahmadabad, IRS – Ahmadabad and CEWell – Vadodara, Gujarat.





Besides our students have undergone projects and training in the following companies:

- CBM, Reliance Industries Ltd., MP
- RGL, ONGC, Chennai
- Kochi Refinery, BPCL
- Neyveli Lignite Corporation, Neyveli
- Karaikal Asset, ONGC
- Aban Offshore
- Weatherford
- ONGC, Assam
- IDT, Dehradun
- Jindal Drilling, Mumbai
- CEWell- Baroda., etc.

### **GUEST LECTURE FOR DEPARTMENT STUDENTS**

**Date: 6<sup>th</sup> August 2014**

- Guest Lecture on “Basement Exploration” by Mr. Ayyadurai, GGM, ONGC
- Guest Lecture on “Exploration & Exploitation of HPHT Wells” by Mr. P Raja, Head COD, ONGC

**Date: 30<sup>th</sup> September 2014**

- Lecture on “Fire, Safety, Exploration & Disaster Management” by Mr. J R Shukla, Ex – GGM, ONGC
- Lecture on “Field Development Geology” by Mr. Sengupta, Chief Geologist, ONGC
- Lecture on “Geochemistry in Oil & Gas Exploration” by Dr. IVSV Prasad, GM-Head RGL, ONGC

### **TECHNICAL PAPERS PRESENTED**

- Won 3<sup>rd</sup> Prize for “EM Waves in EOR” by Mr. Vignesh V, TechFest, and Sriram College of Engineering.
- “Propane (LPG) based fracturing in Tight Gas Reservoirs” by Mr. Ashwin Binth R and Mr. K A G Sudharshan, ICPST – 2014, IIT Madras.
- “Production of Oil from Microwave Cooking” by Mr. H Faizal Ahamed, Mr. B Bharath & Mr. V Vignesh

### **FACULTY DEVELOPMENT PROGRAM**

5 of our faculty members were provided one week training on “Recent Trends in Exploration Techniques” at ONGC academy, Dehradun.

### **SUMMER PROGRAM on “PETROLEUM REFINING AND PETROCHEMICALS”**

Three of our faculty members V.Sowmya, K.Priyadharshini and M.S.Vijayalakshmi have been nominated and selected for attending the 10<sup>th</sup> Summer School Program on “Petroleum Refining and Petrochemicals” at Indian Institute of Petroleum Management (IIPM), Gurgaon.

### **NCUHR 2015, BY SPE RGCE STUDENT CHAPTER, CONCLUDES WITH GREAT SUCCESS**

National Conference on Unconventional Hydrocarbon Resources (NCUHR 2015) was concluded on 6<sup>th</sup> March 2015 after eventful two days of serious deliberations. The conference was supported by SPE Chennai section. This first such conference organizes by RGCE.



The conference was inaugurated by Chief Guests and Guests of Honor Dr. Sivanesan, Dean AC Tech, Executive Director – Asset Manager, ONGC, Karaikal and Executive Director – basin manager, ONGC Cauvery basin, Chennai. The function was inaugurated by Rev Dr. Kurian, Chairman RGCE.



Other dignitaries present on the occasion were Mr. P.Raja, Mr. Ayyadurai,

GGMs, ONGC, Dr. Santha Kumar, CEO, IPCS, Mr. Sajiv Nair, Sr. VP, RIL, Mumbai, Dr. P N Hajira, Sr. Consultant, CBM, New Delhi, Dr. Daniel L Porr, Blade Energy, USA, Professors from IIT, Anna University and other institutes, Experts from various companies, students from various parts of the country participated. The topics deliberated were Shale gas, CBM, HTHP Reservoirs / Tight gas, Gas Hydrates.



About 25 technical papers and 10 keynote addresses were made during two days of deliberations. Apart from Chennai, delegates from following Petroleum Institute's Student chapters and Universities attended:

- Graphic Era University,
- DIT, Dehradun,
- RGIPT Raibareilly,
- JNTU,
- Delta Institute, Vizag,
- AIMET University,
- JCT College, Coimbatore,
- Archana College,
- Sathak Mohamad College, Hydrebad.



The valedictory function was chaired by Mr. Cherian, GM-HR, ONGC, Dr. Porr, Blade Energy, USA, Dr. Sajiv Nair, Sr. VP, RIL, Dr. Ravindran and Prof Jitendra Prasad, RGCE and SPE Chairperson, SPE Chennai. It has summed up the proceedings and compiled the future course of action. Best paper awards

were also given to I and II best papers. Mr. Arafat Osman, Organizer and President, SPE, RGCE Student Chapter thanked delegates, SPE and experts for success of this endeavor.



I prize- paper presentation II prize- paper presentation

### ACHIEVEMENTS



Jegan – Gold Medalist Karuppai – 2 Rank Alzany – 3 Rank

Students of Petroleum Engineering department have excellent academic records. They are encouraged and taught some premier qualities like leadership, networking, etc. by making them to organize guest lectures, conference, etc. with the help of our department head and faculty members.