



Jawaharlal Nehru Technological University, Kakinada

University College of Engineering Kakinada (A)

Department of Petroleum Engineering & Petrochemical Engineering

The chapter provides different several professional, social and cultural activities to enhance different skills among the students. This includes 21 industrial expert talks during two knowledge sharing sessions and three workshops.

- 1) On 18-07-2018, A knowledge sharing session on "Career Opportunities and Guidance for Petroleum Engineers" was organised and a lecture was delivered by an industrial expert Mr. Ravi Kumar, Dy. Controller Petroleum & Explosive Safety Organization, Ministry of Commerce and Industry, Govt. of India. He taught about how a day in the life of a Petroleum Engineer would be, however, petroleum engineers have to work in drilling sites or gas and oil exploration and production sites, they work in other countries. They install, monitor, supervise and maintain work sites.
- 2) On 19-07-2018, 2<sup>nd</sup> Foundation Day Celebrations of JNTUK FIPI Student Chapter was celebrated with great enthusiasm, fun and frolic. Many events like Quiz, Essay Writing, Elocution and games like cricket, throwball, badminton, running were conducted and the winners were awarded with certificates. The celebration started with University Song of JNTUK followed by the speeches of dignitaries. The annual report (2018-19) and future plan (2019-20) for the JNTUK FIPI Chapter had been presented. The chief guest of the celebrations, Shri. S. Satyapal, Group General Manager & Asset Manager, HPHT Asset, Kakinada and distinguished guest, Mr. R. Narahari, DGM(P), EOA, ONGC Kakinada graced the occasion.



**Shri S. Satyapal**  
Chairman of SPE Kakinada Section,  
Executive Director & Asset Manager  
EOA, ONGC Kakinada



**Shri R. Narahari**  
DGM(P), EOA, ONGC Kakinada



3) On 09-11-2018, Invited lectures on Drilling Technologies by different Industrial Experts for the students were organized for different topics from the drilling technologies by the Petroleum Engineers from EOA & HPHT Assets, ONGC, Kakinada. Lists of experts and topics are listed below in a table.

Time hr.	Topic	Speaker
09:15 AM - 09:30 AM	Inaugural Session	
09:30 AM - 10:15 AM	Overview of Drilling Technology	<b>Shri S. Swarna Raju</b> Chief Engineer (P), EOA, ONGC, Kakinada
10:15 AM - 11:00 AM	MWD & LWD	<b>Shri Sanjiv Kumar</b> Asst. Executive Engineer HPHT Asset, ONGC, Kakinada
11:00 AM - 11:15 AM	Tea Break	
11:15 AM - 12:00 Noon	Well bore Integrity	<b>Shri Pradyumn Pandey</b> Executive Engineer EOA, ONGC, Kakinada
12:00 Noon - 12:45 PM	Casing Design	<b>Shri Jayant Kumar Singh</b> Asst. Executive Engineer EOA, ONGC, Kakinada
12:45 PM - 02:00 PM	Lunch Break	
02:00 PM - 02:45 PM	Drilling Fluid Engineering	<b>Dr. P. K. Mahata</b> DGM (Chemist) HPHT Asset, ONGC, Kakinada
02:45 PM - 03:30 PM	Cementation	<b>Shri K. Sandeep Kumar</b> Asst. Executive Engineer HPHT Asset, ONGC, Kakinada
03:30 PM - 03:45 PM	Tea Break	
03:45 PM - 04:30 PM	Directional & Horizontal Drilling	<b>Shri Sanjiv Kumar</b> Asst. Executive Engineer HPHT Asset, ONGC, Kakinada
04:30 PM - 05:15 PM	Stuck pipe & Well control	<b>Shri S. Swarna Raju</b> Chief Engineer (P), EOA, ONGC, Kakinada
05:15 PM - 05:30 PM	Valedictory Session	



Shri S. Swarna Raju



Shri Sanjiv Kumar



Dr. P. K. Mahata



Shri Pradyumn Pandey



Shri Jayanth Kumar Singh



Shri K. Sandeep Kumar

4) JNTUK FIPI Chapter arranged industrial visits to various Industrial Units and Research Centre located at different parts of India. It was a great privilege for the III-year petrochemical Engineering students to visit and understand industrial environment and culture, process technologies, various types of equipment and safety practices. The tour had taken place for two weeks (18-11-2018 to 01-12-2018). The list of industries visited are shown below.

S. No.	Date of Visit	Name of Industry	Location
1.	19-11-2018	Bharat Petroleum Corporation Limited	Mumbai
2.	20-11-2018	Deepak Fertilizers and Petrochemicals Limited	Mumbai
3.	22-11-2018	Oil and Natural Gas Corporation, Hazira Plant	Gujarat
4.	28-11-2018	Bharat Petroleum Corporation Limited, CRDC	Noida

The photos taken at the end of each visit are shown in the figures given below.



Bharat Petroleum Corporation Limited,  
Mumbai Refinery



Deepak Fertilizers and Petrochemicals Limited,  
Mumbai



Oil and Natural Gas Corporation Limited,  
Hazira Plant, Gujarat



Bharat Petroleum Corporation Limited,  
CRDC, Noida

5) On 09-03-2019, A workshop on Oil & Gas Pipelines was conducted. Mr. Subrata Banerjee, Senior General Manager, Head POC, PIPL, Gadimoga graced the occasion as the chief guest for the event. 5 lectures were presented by experts from GAIL, PIPL. List of the experts and topics are listed below.

Time hr.	Topic	Speaker
14:00 - 14:30	Inaugural & Keynote Address: Operations of Natural Gas Pipelines	<b>Shri Subrata Banerjee</b> Senior General Manager Head POC, PIPL, Gadimoga
14:30 - 15:00	Pipeline Route Selection and Survey	<b>Shri K. V. K. Trinadhulu</b> Manager, GAIL, Rajahmundry
15:00 - 15:30	Pipeline Transportation of LPG: Challenges	<b>Shri Giri Veeranki</b> Senior Manager, GAIL, Rajahmundry
15:30 - 15:45	Tea Break	
15:45 - 16:15	Inspection & Monitoring of Pipelines	<b>Shri Bajivalli Nurbash</b> General Manager (Electrical & Maintenance) PIPL, Gadimoga
16:15 - 16:45	Operation and Maintenance of Gas Pipelines	<b>Shri P. Venkateswarlu</b> DGM (O&M), GAIL, Rajahmundry
16:45 - 17:15	HSE aspects in Oil & Gas Pipelines	<b>Shri N. Ch. Ramanarasimham</b> Lead Operations Compressor Station-01 PIPL, Gadimoga
17:15 - 17:30	Summing up by student coordinator	<b>Mr. Yella Ganesh</b>



Shri Subrata Banerjee



Shri P. Venkateswarlu



Shri N.Ch. Ramanarasimham



Shri Bajivalli Nurbash



Shri K.V.K. Trinadhulu



Shri Giri Veeranki



Workshop on Oil & Gas Pipelines – Group Photo

6) On 10.03.2019, (9.30 A.M. to 12.30 P.M.) A workshop on Drilling and Well Completion was conducted. Shri. Aravind Morbale, Executive Director & Asset Manager, EOA, ONGC, Kakinada was invited as the Chief guest (He could not attend the event due to an exigency). The list of experts and the topics are given in the table given below.

Time hr.	Topic	Speaker
09:30 - 10:00	Keynote Address: Development of Deep Water Oil and Gas Fields-Challenges	<b>Shri Aravind Morbale</b> Executive Director & Asset Manager EOA, ONGC, Kakinada
10:00 - 10:30	Deep Water Well Drilling	<b>Shri Rajeev Dhupar</b> GM (Drilling), Head Drilling Services, EOA Asset, ONGC, Kakinada
10:30 - 11:00	Deep Water Well Completions	<b>Shri E. V. Ramam</b> GM (Production), Head Sub-Sea, Well Services, EOA Asset, ONGC, Kakinada
10:45 - 11:15	Tea Break	
11:15 - 11:45	Challenges in Drilling and Completions of HPHT Wells	<b>Shri Koka S. V. S. S. Raj Kumar</b> DGM (D), In Charge Planning-HPHT, Drilling Services, Rajahmundry Asset, ONGC, Rajahmundry
11:45 - 12:15	Innovative Research on Drilling Fluids Technologies	<b>Dr. Ponmani Swaminathan</b> , Assistant Professor, Petroleum Engineering, AMET University, Chennai.
12:15 - 12:30	Summing up by student coordinator	<b>Ms. Y. Meghana</b>



Shri Rajeev Dhupar



Shri S. Swarna Raju



Shri Koka S.V.S.S. Raj Kumar



Dr. Ponmani Swaminathan



Workshop on Drilling and Well Completion-Group Photo

7) On 10.03.2019 (2.30 P.M. to 5.30 P.M.), A workshop on Refinery Distillation was conducted with the chief guest Shri J. Ravi Srinivas, Vice-President, Sulphur Technologies, Worley Parsons, Hyderabad, delivered keynote address. Two other speakers from HPCL, Visakh Refinery have made presentations and the topics are tabulated below.

Time hr.	Topic	Speaker
02:30 - 03.00	Keynote Address: Crude Oil Refining in India: Challenges	<b>Shri J. Ravi Srinivas</b> Vice-President, Sulphur Technologies, Worley Parsons, Ascendas, Hitech City, Hyderabad
03.00 - 03.30	The Importance of Different Distillation Methods (TBP, ASTM & EFV) in Crude Refining	<b>Shri Raju Bhukya</b> Manager-Operations, HPCL, VSKP
03.30 - 04.00	Atmospheric Crude Distillation	<b>Shri Raju Bhukya</b> Manager-Operations, HPCL, VSKP
04.00 - 04.15	Tea Break	
04.15 - 04.45	Vacuum Distillation	<b>Shri Raju Bhukya</b> Manager-Operations, HPCL, VSKP
04.45 - 05.15	Separation of FCC Products: Trouble shooting	<b>Shri Jaya Prakash Ratti</b> Manager-Technical HPCL, VSKP
05.15 - 05.30	Summing up by student coordinator	<b>Ms. G. Anusha</b>



Shri J. Ravi Srinivas

Shri Jaya Prakash Ratti

Shri Raju Bhukya

8) Two outreach programs of teaching to school children at Parivartha Children Orphanage, Kakinada to bring awareness in career and inspiring them to achieve their goals.



9) Six Swachh Bharat Clean & Green India Programmes were conducted by members of FIDI Chapter to clean the class rooms besides the premises of the department of PE & PCE. To enhance the greenery in front of the department, plantation programs were also organized.

1. 10<sup>th</sup> August 2018
2. 7<sup>th</sup> September 2018
3. 16<sup>th</sup> November 2018
4. 7<sup>th</sup> December 2018
5. 7<sup>th</sup> March 2019
6. 17<sup>th</sup> July 2019



10) An invited Lecture on Environmental Friendly Technologies for Pollution Control: Role of Chemical & Petroleum Engineers has been inaugurated by Dr. V. S. R. K. Prasad, Director of Indian Institute of Petroleum & Energy (IIPE), Visakhapatnam along with Dr. M. H. M. Krishna Prasad, Vice-Principal, UCEK (A), Dr. Lingaraju Dumpala, Head, Dept. of PE & PCE, Prof. K. V. Rao, Programme Director, Petroleum Courses and Dr. K. V. S. G. Murali Krishna, Professor, Dept. of Civil Engineering on 14.03.2019 at 05.00 pm. Dr. V. S. R. K. Prasad delivered the lecture from 05:30 pm to 06:30 pm. The lecture has been useful to students and faculty to enhance their domain & other technical knowledge to improve their understanding of societal and professional requirements, especially to bring awareness and develop environmentally friendly technologies for pollution control. The students have been inspired and motivated by the presence of Dr. V. S. R. K. Prasad.



Dr. V.S.R.K. Prasad