



EVENT REPORT



1. Expert Lecture:

Date: 11th October, 2018

Topic: Optimization: Engineering Applications

Speaker: Dr. Nitin Padhiyar, IIT Gandhinagar

He has completed his **Bachelor in Engineering** from L.D. College of Engineering, Ahmedabad in 2000 and his **Master in Technology** from Indian Institute of Technology, Kharagpur in 2003 and his **Ph.D.** from Indian Institute of Technology, Bombay in 2008. His area of interest are Genetic Algorithms, Multi-Objective Optimization (MOO), Process Optimization and Control and Dynamic Optimization. He is presently working as Assistant Professor in IIT Gandhinagar.

He was welcomed by Mrs. Sweta Balchandani and other faculty members. He started his session by giving a brief information on optimization. His accumulated experience and knowledge are formidable. He emphasized on the importance of optimization & research for the developments of engineering applications with specific examples. He explained with a simple example of optimization of volume of a cylindrical tank by changing the parameters such as radius and height. He took the random values of radius and height of the cylindrical tank, and calculated the volume in excel sheet. Then at different values of radius and constant height or vice-versa, he optimized the volume. He discussed about the various softwares which can be used for optimization.



2. Expert Lecture:

Date: 26th October, 2018

Topic: Fertilizer Technology : Chemical Process

Speaker: Mr. Alok Jaiswal, Manager -IFFCO Kalol

The Department of Chemical Engineering, PDPU in association with Indian Institute of Chemical Engineers (IIChE) had organized an industrial expert lecture on various chemical processes involved in fertilizer industries. The lecture started with an interesting interacting session. An introduction to fertilizer industries was given further proceeded with various types of the chemical processes involved in fertilizer industries, students were insighted with the various raw materials and manufacturing process involved for the production of fertilizers. Brief overview of different advancement possible in various processes in manufacturing of the fertilizers were given and thus the perceptions lecture ended with a small question and answer session where students from 2nd ,3rd and 4th year actively took part.



3. CHEM FUGE - The Quizing Extravaganza:

Date: 26th October, 2018

Duration: 2 PM - 6 PM

Organized by: IChE Student Chapter, Pandit Deendayal Petroleum University

Supported by: Department of Chemical Engineering, Pandit Deendayal Petroleum University

Co-ordinators: Dhwanil Vaghani, Unnati Khaturia, Nishant Gajjar, Raj Pindoria

Volunteers: Kevalsinh Devdhara, Poojan Chaklasiya, Vandan Dudhat, Dhruv Patel, Srushti Barvaliya, Nistha Bhingaradia, Payal Raghuvanshi

IChE Student Chapter in association with the Department of Chemical Engineering, Pandit Deendayal Petroleum University organized the enthralling event **CHEM FUGE - The Quizing Extravaganza** at D-LT 1 in the lush green campus. This Inter College quizzing event was subjected to put to test the knowledge of the discipline, general knowledge and agility of the budding chemical engineers all over.

The event commenced with a warm welcome of the participating teams by **Mr. Anirban Dey** (Lecturer, Department Of Chemical Engineering, PDPU). The quizmaster for the event was Jigar Nanda and Unnati Khaturia. The Screening Round consisted of 25 multiple choice questions that were needed to be correctly answered by the 22 participating teams for moving on to the next round. The winning 11 teams then continued for the further rounds accompanied by periodic eliminations.

The First Round consisted of rapid fire questions, where each question was meant to be answered within a span of ten seconds by the teams. Each team had to answer five such questions. After the completion, the scores of each team were put down and compared. From here, only the top 9 teams were allowed to proceed to the next round and the remaining teams were eliminated.

The Second Round comprised of two parts. The first part consisted of correctly identifying the name of scientist. Each team was provided with short information and a picture of the scientist. The second part consisted of questions related to the disaster occurred in the past. After the completion, scores of each team were put down and compared. This time Bounce-Pounce was introduced which gave a fair chance to the teams to score points if they know the answers of other questions.

The Third Round comprised of correctly answering the logos of companies, phenomena, equipments and much more. Each team was provided with two pictures. After the completion, scores of each team

were put down and compared. This time Bounce-Pounce was introduced which gave a fair chance to the teams to score points if they know the answers of other questions.

The Fourth Round was a jeopardy round. These included five questions each from five different disciplines of Chemical Engineering, 25 questions in total. There were five sets in the round, the team with the highest points was given a chance to select the set. Each questions consisted of 20 points and negative marking of 10 points. The last five teams competed vigorously to score maximum points in this round.

After attempting a series of mind-boggling questions, the top three teams that emerged were,

First Position: Ayush Bhavsar, Sayli Katewale, Priyank Dimri

Second Position: Keval Makwana, Shreya Singh, Avani Makhesana

Third Position: Medhavi Pandya, Anwasha, Shadab Pathan

The event terminated with the motivating words of **Dr. Swapnil Dharaskar** (Head of Chemical Engineering Department, PDPU) and an open discussion about the prospective events benefiting the student community. The active participation and acumen of the students and the unwavering hard-work of the volunteers, made this event a vivacious and a resourceful event!

















3 Day workshop on “ *Process Plant design and safety*”

With the objective to enhance budding chemical engineers skills in safety and design layouts, Pandit Deendayal Petroleum University in association with IICHE Student Chapter organised a three day workshop on ‘Process Plant Design & Safety’ dated 1- 3rd Feb-2019.

The key speakers for the workshop were:

- Prof A. Kannan, IIT Madras
- Mr. Vijay Vasudeva, Reliance Industries Limited
- Mr. Chinmay Shah, Gulbrandsen Chemicals Pvt Ltd
- Mr. Ajit Sharma, Jacobs Pvt. Ltd
- Mr. Ronak Soni, Zeppelin Systems India, Pvt. Ltd
- Mr. Rajnikant Sharma, IIFCO, Kalol. To name a few...

With the brilliant amalgam of eminent speakers and a zealous organising committee, the workshop aimed at acquainting the participants with the stumbling blocks of process industries and for the same, organised lectures and hands on session on Aspen Plus and Aspen Hysis. The participants indulged in the sessions on topics such as ‘*Sensitivity Analysis in Process Plant using Aspen Plus Modules*’ , ‘*Modelling and Simulation Of Extractive Distillation Columns*’ etc with diligence and the acumen to learn and optimise the design parameters taking care of the safety regulations was well resonated within the participants. Three days of the design and safety workshop ended on a successful note with with the motto achieved and skills enhanced and approbated.



Expert talk by Mr. Dipankar Karmakar, AGM, Linde Vadodara

The need of the hour is to bring budding students at ease with the real industrial processes and their working, and in order to contribute for the cause, an expert lecture by Mr. Dipankar Karmakar, AGM, Linde Baroda was organised at the PDPU Campus on 16th February, 2019. The lecture was mainly targeted at the **Ethylene Technology** at Linde with its prime focus on the major steps involved from obtaining the raw materials to maintaining the economics.



Expert talk by Dr. Rashmi Walvekar, Associate Professor, Taylors University, Malaysia

An expert talk in order to enrich the knowledge of students in the field of nano-science was organised in the PDPU campus on 1st March, 2019 on the topic **Research Advancement in Nano-science Technology**. The key speaker of the event was **Dr. Rashmi Walvekar (Associate Professor, Taylors University, Malaysia)**. The much engaging session turned out to be of great fascination and was extremely resourceful for the students.



Industrial Visit to GACL Vadodara and Reliance Industries Ltd. Vadodara Unit

Students of the 4th semester, Chemical Engg alongwith M.Tech students and Faculty members visited **Gujarat Alkalies and Chemicals Ltd. Vadodara** and **Reliance Industries Ltd. Vadodara** on 6th February and 19th March 2019. These visits are organized as part of Industrial Orientation initiative of the University.



