

### CHEMFLARE 2k18

The Department of Chemical Engineering, ANITS has organized a two day National Student Conference, Chemflare 2k18 during 30-31 January, 2018. Chief Guest of the event Mr. B. Balagangadharam, Chief General Manager (Technical), HPCL, addressed the gathering and highlighted the importance of chemical engineering subjects like fluid mechanics, mass transfer, heat transfer and fluidization engineering. He enhanced the knowledge on upstream and downstream processes. Guest of honour Mr. B. Ravikumar, Deputy Controller of Petroleum and Explosives Govt. Of India, shared his knowledge on chemical engineering with the students. He told that Chemflare is a big platform to explore the hidden skills within the students. Mr. Naveen Neerukonda, Treasurer, ANES mentioned that technical fests are very important in students life and they can share their knowledge with other students to enhance their skills.



Prof. T. V. HanumanthaRao, Principal, ANITS gave a glimpse on current trends of Chemical Engineering. Prof. S. SubbaRao informed the gathering about the responsibility of chemical engineers in solving the pollution problems raised out of the chemical industry. Ms. P.V.SaiSudha, President, RACE, introduced the student forum RACE and enlightens on the events of Chemflare 2k18. Chemical Engineering Department took an initiative to launch departmental magazine “Rasagyan” which was released by Mr. B. Ravikumar. Subsequently various competitions and spot events were conducted and prizes were given. The Souvenir C.D containing the details of the technical sessions was released on the occasion and a formal vote of thanks was proposed by Mr. Vivek Inna, II/IV Chemical Engineering student.

## Model Exhibitions:

The main dictum of this event is to make students enhance their basic chemical engineering knowledge by shaping their ideas in the form of models. Prizes were distributed to the best and innovative models which sustain to the modern technologies.



## Co-curricular Activities

The Paper Presentation is to introduce the latest trends in research and technology and also to develop the presentation and communication skills of an individual and also students showed their mettle to overcome stage fear during the Chemflare2k18. Around 28 papers were presented. The event was conducted for a period of 2 days.



The Poster Presentation is to enhance the students to showcase their creative skills. Poster presentation is a key component of communicating science and an important element in successful career. Technical quiz event was conducted to test the knowledge of the students. This helps students in overcoming stage fear and in developing the communication skills of the students.

An extravaganza event Treasure hunt has been introduced for the first time in the department. The main dictum here was to test the knowledge of the students in the lighter way. The participants were made to find the clues which were placed in different laboratories of the department, depicting the chemical knowledge. The best team consisting of sharper minds have won the contest.

The most awaited and vibrant night of the year, the extravaganza cultural night has begun with the students pumping up their energy levels all across the auditorium. The event has come to life by the performance of the students. This is one of the nights, every student of the department will like to re-live.



## **National Workshop on “Application of Theory to Process Industry for Engineers”**

The Department of Chemical Engineering, ANITS in association with Process Engineers Group, from Hyderabad has organized a two day National Workshop on, “Application of theory to Process Industry for Engineers”, during the 8th , 9th, Dec., 2017. The inaugural program was graced by Chief guest Dr. G.Madhu Kumar, Honorary Secretary and Correspondent of Dr. Lankapalli Bullayya Colleges, Visakhapatnam. The other dignitaries who graced the occasion include, Mr. G.Vijay Kumar, Head, Process Engineers Group, Hyderabad, Sri Neerukonda Naveen, Treasurer, ANES, along with principal of ANITS, Prof. T.Hanumantha Rao, and Head of the Department of Chemical Engineering, Prof. S.Subba Rao and the Convener of the workshop, Mr. M.Koteswara Rao.



Dr. G.Madhu Kumar, the Chief Guest of the function insisted upon flexibility to meet the diversified needs of both industry and community for which chemical engineers need to be flexible for horizontal diversification and vertical expansion. He appreciated the organizers for incorporating hazard analysis and management which is the need of day.



Mr. G.Vijay Kumar, Guest of Honor narrated his experiences during the initial stages of his job. A firm grip on ten equipment of chemical engineering is sufficient to understand and also develop flow sheets that can meet industry needs.

## **Guest Lecture on Improving Energy Efficiency of Chemical Processes: Potential and Technologies**

The Department of Chemical Engineering, ANITS organized a guest lecture on 28th December 2017 by Prof. G.P.Rangaiah, Adjunct Professor, of Department of Chemical and Bio-molecular Engineering, National University of Singapore. He spoke on “Improving Energy Efficiency of Chemical Processes”. He focused on heat exchanger networks, pinch analysis, dividing wall column and process intensification. He emphasized on energy recovery, reuse and efficiency. He addressed energy saving techniques for process industries. Prof. T.V. Hanumantha RAO, Principal, ANITS, faculty and students of Chemical Engineering attended the session.



## **Interaction on**

### **“Opportunities for Chemical Engineers”**

A guest lecture on “Opportunities for Chemical Engineers” by Mr. Praveen, an alumini(2012-16 batch) of Chemical Engineering Department was arranged on 18-01-2018. He advised students to go through some websites to gain knowledge all around the world so that they can inter-link with the academics. He made a clear statement that knowledge sharing is knowledge gaining. He encouraged the students to go through the research articles for those who want to appear for GATE, GRE etc. He suggested the 2<sup>nd</sup> year students to interact with their seniors. He asked some questions to the students about their goals, what they have done till now in B. Tech. and some probability questions. He also advised students to take help from the faculty for academic purposes, research article, models, internships and other co-curricular activities. Finally he concluded by saying that education is only the powerful weapon which we can be used to change the world by acquiring the knowledge from various fields.



## **Guest Lecture on**

### **“Operations and Opportunities in ONGC”**

Guest lecture on “Operations and Opportunities in ONGC” by Mr. K. M. K. Chand. Dy. General Manager (Retd) ONGC was arranged by the Department of Chemical Engineering ANITS on 6-3-2018. Mr. K. M. K. Chand told that students are future of the nation and there is no short cut to success. He introduced oil and gas industry to students by focusing on various areas of oil industry like survey of land which can be done by geo-scientists, building of wells by reservoir engineers etc. He also discussed about the upstream, transportation of fluids and downstream of petroleum industry.

Ms. K. Sarada W/O Mr. K. M. K. Chand advised the students to manage their time to know things better. She motivated students to get courage to face the challenges. She told that self-motivation is a very important tool to attain success. Students should have skill, knowledge and ability to solve any problems. She also told that students should have sound knowledge on core subjects. She addressed students on how to face an interview. She advised students to add value to education. Prof. SubbaRao, Head, Department of Chemical Engineering, faculty and students participated in the programme.



## **CHAMPIONS**

At inter-departmental dance competition was held on Annual day on 3<sup>rd</sup> March 2018, Chemical engineering department students have won 1<sup>st</sup> Prize by giving a tough fight to the dancers of other respective departments.



## **INDUSTRIAL VISITS**

### **• VISIT TO M/S GOVADA SUGAR FACTORY, CHODAVARAM**

An Industrial visit was organized by the department of chemical engineering to M/S Govada Sugar factory, Chodavaram on 23-12-2017 and it was a successful with 43 students of III/IV B.Tech accompanied by Prof. S. Subba Rao, HOD and Ms. C. Maheswari, Assistant Professor. The unit operations like crushing, clarification, evaporation, crystallization, centrifuging was shown and well explained by the concerned people of the sugar plant. Our

students have benefitted by the practical exposure of the equipment. Overall the students felt the visit was very interesting and useful.



- **VISIT TO M/S HPCL, VISAKHAPATNAM**

An industrial visit to HPCL, Visakhapatnam was arranged on 10-03-2018. 46 students of III/IV B. Tech. Chemical engineering along with two faculty Mr. M. Koteswara Rao and Ms. P. Mallika Rani, Assistant Professors and Mr. Pavan Kumar, Technician, Department of Chemical Engineering, ANITS visited the industry. Mr. M. Kali Narasimham, Senior Manager gave an introduction about the plant and its capacity which was later followed by presentation session on refining by Mr. J. P, Technical coordinator. The presentation included a brief outlook on the crude oil exploration, basic refining techniques (Crude Distillation Unit, Vacuum Distillation Unit, Fluid Catalytic Cracking, Visbreaking, Hydrodesulphurization, Hydrotreating, Coking, DHDS, Hydrogenation, etc.,) and petroleum products (Light gases, gasoline-Motor Spirit, Kerosene, Diesel, HSD, Fuel Oils, Bitumen, Tars, etc.). After the presentation session, Mr. M. Kali Narasimham accompanied the students to visit around the refining units in the industry. He gave an outlook on every refining operation. Our students are well benefitted by the practical exposure. Students felt the visit was very interesting and reflected the same with their doubts, interaction with Mr. M. Kali Narasimham on various processes in Petroleum Refining.



**Editor**

**Mr.B. Pradeep Santosh kumar**

**(Faculty Advisor)**