Workshop on Challenges and Opportunities in Modeling/Developing Industrial Processes

Department of Chemical Engineering, Indian Institute of Science, Bangalore

Friday, May 5th 2017

- 10 11 am Hydrocracking in the Refining Industry Gokul Bhuvaragun, Senior Technical Service Engineer, Chevron Lummus Global, Mumbai
 - i. Refining Flow sheet and Hydrocracking place
 - ii. Hydrocracking fundamentals
 - iii. Hydrocracking Flow schemes
 - iv. Basic Catalyst information and formulation.
 - v. Areas of Current Research.
 - vi. BPCL UDCT Technical collaboration models.
- 11 am noon Olefins Processes: Operation and Optimization Dr. Chandra Gannavarapu, Senior Manager, Global Risk Analytics, LyondellBasell Industries , Houston, Texas
 - i. Fundamentals issues in steam cracker operations
 - ii. Process control advancements and challenges
 - iii. Cracker feed optimization opportunities

noon – 12.15 p.m. Coffee

3. 12.15 pm – 1.15 pm Polycarbonate process technologies: The drivers of process options.

Dr. S. Sivakumar, Chief Scientist, SABIC, Bangalore

- i. Introduction to PC (product and applications)
- ii. Routes to make PC
- iii. Technology/chemistry approaches for intermediates
- iv. Interplay of kinetics, thermodynamics and equipment design
- v. Challenges

1.15 p.m. - 2 p.m. Lunch

4. 2 pm – 2.45 pm Presentation about the department and research activities by the chairman Prof. Ganapathy Ayappa