

Workshop on Green Engineering

Date: 16th October'2019 (Wednesday)

Expected Participants: President/VP-Technology, Head/GM-Tech. Transfer, Technical Services Engineers, Process Engineers, etc

Expected No. of Participants: 75+

- Objectives:**
1. To introduce the basic concept & Principles of Green Engineering.
 2. To introduce various Green Engineering tools e.g. process intensification, flow reactors, etc.
 3. To share importance of process safety & Green Engineering as a tool to achieve inherent safety.
 4. To share successful case studies & introduce new innovative solution providers in the domain of Green Engineering.

Timing	Speaker, Designation, Company	Topics	Context & Content/Comments
9:00 am - 9:30 am	Green ChemisTree Foundation Representatives	Welcome, Acknowledgement, Prayer, Creating Context for IGCW2019	
9:30 am - 10:00 am	Welcome Address by Chief Guest	Welcome, Launching IGCW App	
10:00 am - 10:45 am	Prof. Paul Anastas, Director, Centre for Green Chemistry & Green Engineering at Yale, USA Dr. John Warner, President & CTO, Warner Babcock Institute of Green Chemistry, USA	Day I Inaugural Keynote Address (Main Auditorium): Green Chemistry and The Future	
10:45 am - 11:30 am	Tea/Coffee Networking Break, Visiting IGCW Expo. After break, move to Seminar Halls for parallel sessions.		
11:30 am - 11:40 am	Welcome & Introduction to "Workshop on Green Engineering" by Prof. R. D. Gudi, HOD, Dept. of Chemical Engineering, IIT-Bombay		
11:40 am - 12:30 pm	Dr. David Constable, Science Director, ACS-Green Chemistry Institute, USA	Key Note: Green and sustainable chemistry and engineering – the two are inseparable	Introduction to Green Engineering, Inherent Safety
12:30 pm - 1:00 pm	Dr. Chuck Orella, Director Chemical Engineering R&D, Merck & Co. Inc., USA	Examples of Intensified Separations for Greener Processes	Advanced Separations in API Operations, purification of thermally labile products
1:00 pm - 2:30 pm	Lunch Break, Visiting IGCW Expo		
2:30 pm - 3:00 pm	Prof. Anil Kumar, Chair Professor, Continuous Flow Chemistry Lab, Chemistry Department, IIT-Bombay, India	Continuous Flow Process: A New Paradigm in Green Chemistry	Fundamentals of Flow Reactors
3:00 pm - 3:30 pm	Mr. Vijay Kirpalani, CEO, Pi-Process Intensification Experts LLP, India	Flow Chemistry leading to Green Re-Engineering of Chemical Plant	Flow Reactors: Recent advances & Scale-up in India

3:30 pm - 4:00 pm	Dr. Deepak Palekar, Head - Strategy & Technology, STEP Pvt. Ltd., India	New Developments in Process Intensification - Reactors & Chromatographic Separations	New developments in Process Intensification
4:00 pm - 4:45 pm	Tea/Coffee Break, Visiting IGCW Expo		
	Presentation from 4 Solution Providers		
4:45 pm - 5:00 pm	Prof. Ravindra Gudi, HOD, Dept. of Chemical Engg, IIT-Bombay		Recent work at IIT-Bombay on technologies & solutions in Green Engineering
5:00 pm - 5:15 pm	Dr. Prashant Waske, Sr. Manager - IMSG (AutoChem), Mettler Toledo India Pvt. Ltd., India	Process optimization and industrial scale-up: Mettler Toledo Solutions	Process optimization and scale-up of industrial processes safely
5:15 pm - 5:30 pm	Dr. Amol Kulkarni, Scientist, Dept. of Chem. Engg. & Process Dev., CSIR-National Chemical Laboratories, India	Continuous manufacturing platforms for Fine and Specialty Chemicals Industry: Relevance toward Sustainability	CSIR-NCL's initiatives/tools in process intensification to reduce environmental footprint of speciality & fine chemicals industry
5:30 pm - 5:45 pm	Mr. Vineet Shroff, CEO, Standard Engineers, India	Smashing the shackles of Mass Transfer	Effective mixing/agitation - a green engineering tool to impact competitiveness and reduce environmental footprint
5:45 pm - 6:30 pm	Tea/Coffee Break, Visiting IGCW Expo		
6:30 pm onwards	IGCW Awards Evening Ceremony, followed by Networking Dinner		

Industry Mentor:

Dr. Deepak Palekar, Head - Strategy & Technology, STEP Pvt. Ltd., India

IIT Mentor:

Prof. Ravindra D. Gudi, HOD, Dept. of Chemical Engineering, IIT-Bombay, India

Potential Speakers: