ADVANCING IMPLEMENTATION OF GREEN CHEMISTRY & ENGINEERING IN INDIAN PHARMA INDUSTRY

27th – 28th September 2018, Hotel Avasa, Hyderabad

Background

The two-day Conference & Exhibition is in continuation to our Pharma-specific Green Chemistry & Engineering (GC&E) deliberations in India organized in 2013, 2015 and 2017. **The American Chemical Society - Green Chemistry Institute's Pharmaceutical Round Table (GCIPR)** has once again joined hands with the Green ChemisTree Foundation to co-facilitate this initiative with the objective to enable greater business value for Indian Pharma API and Bulk intermediate manufacturers /suppliers by emerging as an environmentally responsible pharma supply-chain in the global Pharma Industry.

Objectives

- To abreast the Indian pharma leaders on global opportunities of GC&E trends and practices in the Industry.
- To provide subject-specific interactions on topics pertinent for GC&E integration in the Pharma API Industry (such as Bio-catalysis, Solvent & Reagent selection tools, GC&E matrices, LCA, etc.).
- To bring together Govt. bodies and Regulatory agencies for expanding their awareness on the impact of GC&E practices in Indian Pharma Industry, and their role in accelerating its implementation.
- To facilitate learning of GC&E implementation strategies and practices from successful case-studies.
- To facilitate one-to-one interactions with GGC&E tools and technology providers offering ready-to-implement solutions
- To explore collaborative models and platforms for enhancing green chemistry industrialization.

INVITED GUESTS AT THE INAUGURATION

- **Mr. K. T. Rama Rao,** H'ble Minister for Industries and Commerce, Telangana State
- **Mr. Jayesh Ranjan,** Principal Secretary, Principal Secretary, Industries and Commerce, Govt. of Telangana.
- **Mr. Satyanarayana Reddy,** Member Secretary, Telangana State Pollution Control Board
- **Dr. S. Chandrasekhar, Director,** CSIR- Indian Institute of Chemical Technology (IICT)

CONFIRMED SPEAKERS:

Dr. David Constable, Science Director, ACS-Green Chemistry Institute, USA

Prof. Nicholas Turner, Faculty of Science and Engineering, School of Chemistry, Manchester Institute of Biotechnology, UK

Mr. Srini Srinivasan, Managing Director, Hospira Health Care Pvt. Ltd. (A Pfizer Co.)

Dr. Juan Colberg, Senior Director, Pfizer Inc., USA

Dr. Guy Humphreys, Distinguished Senior Investigator - MSD (Merck USA)

Dr. Rajappa Vaidyanathan, Group Director & Head, Chem. Dev. & API Supply, Bristol-Myers, Squibb, India

Dr. Sudhir Nambiar, President – R&T, Hikal Ltd.

TENTATIVE SCHEDULE

Date	Events	Target audience
24th & 25th Sept.	**One-to-one Meetings of large Indian Pharma Companies with GCIPR experts.**	
27th Sept., Thursday	**Pharma Leadership Summit -** Economic Competitiveness and Environmental Sustainability of Pharma Industry through Green Chemistry.	Senior Management - MDs, CEOs, President, Technical Directors, CSOs, CTOs, VP / Head of R&D / Technology
27th Sept., Thursday	**Workshop on "Bio-catalysis in Pharma API Industry".**	Group Leaders, R&D Managers, Senior Scientists, Senior Chemists, Process Development Scientists
28th Sept., Friday	**Workshop on "Essential Tools & Techniques for driving Green Chemistry in the Pharmaceutical Industry"** - Solvent selection and reagent selection guides, GC&E matrices, etc.	
28th Sept., Friday	**GC&E Technology showcase by Solution Providers** - Case-study presentations by solution providers/ Exhibitors from Industry and Research Institutes	R&D /Production Managers, HSE Managers, Sustainability Head
27th & 28th Sept.	**Green Chemistry & Engineering Solution Providers' EXPO**	Open for all

SOLUTION PROVIDERS AT THE EXPO

IMMEDIATE SOLUTION PROVIDERS

- Recycle@source technologies
- Zero liquid discharge solutions
- Green Process simulation technologies
- Process intensification
- Innovative ETP Solutions
- Education, Training & Publications
- Green Consultants and Strategies
- Sustainable recycling solutions
- Waste Valorization

SHORT TERM SOLUTION PROVIDERS

- Solvent recovery solutions
- Bio-catalysts
- Sustainable Metal Catalysts
- Green Solvents
- Green Additives (surfactants, chelates, Reagents)
- Green Reaction Mediums
- Innovative Approach to COD/ BOD Reduction
- Green Start up and SME solution providers
- Green Analytical Chemistry : Efficient Analysis Solution

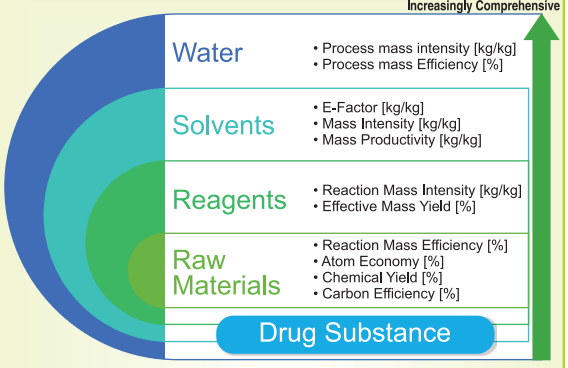
MID TERM SOLUTION PROVIDERS

- Micro-reactor Technologies
- Flow Chemistry
- Green Engineering
- Super-critical fluid extractions
- Ionic Liquid Solvents
- Switchable Solvents
- Solvent free Process
- 'Green' Dyes Pigments and Inks
- LifeCycle Analysis and Green Metrics
- Solar Chemistry and Engineering Solutions
- Green Chemicals and Intermediates
- Low Toxicity Chemicals
- Industrial Ecology Approach

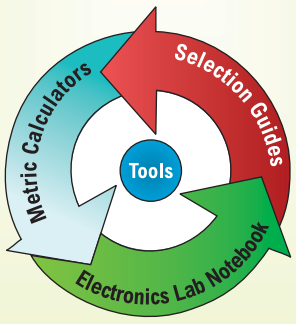
LONG TERM SOLUTION PROVIDERS

- Renewable feedstock, biomass and materials
- Bio-Based Chemicals
- Microwave Chemistry and Engineering
- Green Substrates'
- Green Tech/clean Tech Solutions
- Bio tech / Nano Tech Solutions
- 'Green' Synthesis Solutions
- Bio Mimicry Approach Solutions

PROCESS METRICS



F. Roschangar, R. A. Sheldon and C. H. Senanayake, Overcoming Barriers to Green Chemistry in the Pharmaceutical Industry - the Green Aspiration Level Concept, Green Chem., 2015, 17, 752–768.



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