

## Conference on "Green Chemistry for Agro Chemicals Industry"

**Date:** 17th October'2019 (Thursday)

**Expected Participants:** CEO, Directors, President, VP, GM, Senior Representatives from Agro Chemicals Industry.

**Expected No. of Participants:** 75+

- Objectives:**
1. To share various business, regulatory, supply chain dynamics happening globally in Agro Chemicals Industry related to sustainability.
  2. To share Green Chemistry initiatives, successful case studies, tools, techniques & best practices by large agro companies.
  3. To share recent innovations like Flow Chemistry & its successful implementation in Agro Chemicals Industry.
  4. To introduce new innovative green chemistry & engineering/environmental solution providers.
  5. To identify challenges, gaps & mindset issues in implementing Green Chemistry and way forward for Agro Industry.

Timing	Speaker, Designation, Company	Topics	Context & Content/Comments
9:00 am - 9:30 am	Green ChemisTree Foundation Representatives	Welcome, Acknowledgement, Creating Context for IGCW2019, Launching IGCW App	
9:30 am - 10:15 am	Dr. Johannes Benkhoff, Sr. Vice President - Group Chemical Research, Clariant Produkte (Deutschland) GmbH, Germany	Day II Inaugural Keynote Address (Main Auditorium): <b>Going green in chemistry – the Clariant innovation journey</b>	Global trends in environment & sustainability, changing regulatory dynamics for chemical industry, expectations of MNCs from their supply chain, Clariant's initiatives & case study in Green Chemistry & Sustainability.
10:15 am - 11:00 am	<b>Tea/Coffee Networking Break, Visiting IGCW Expo. After break, move to Seminar Halls for parallel sessions.</b>		
11:00 am - 11:10 am	Welcome and Introduction to Conference on "Green Chemistry for Agro Chemicals Industry Sector" by Dr. Yogendra Shastri, Assistant Professor, Dept. of Chemical Engineering, IIT-Bombay, India		
11:10 am - 11:55 am	Dr. K. Nagarajan, Corporate Advisor, Hikal Ltd., India	Keynote: Crop Protection Chemicals - Green Chemistry and Beyond	Global & local trends in Agro Chemicals industry, our mindset, gaps & challenges at hand and future direction. Need for green chemistry to achieve sustainability
11:55 am - 12:30 pm	Dr. Sudhir Nambiar, President - Research & Technology, Hikal Ltd., India	The Kaleidoscopic Green shades of Crop Chemistry	Continuous process improvement through Route selection, telescoping of steps, solvent recovery, etc., Green Chemistry metrics being used, case study of how green chemistry principles makes good business sense
12:30 pm - 1:00 pm	Dr. Bhanu Manjunath, Director - Research & Technology Centre, Syngenta Biosciences Pvt. Ltd., India	Sustainability trends in Agrochemical Chemical Research and Development	Sharing Sustainability & Green Chemistry based tools & technologies adopted, successful case studies & its impact

1:00 pm - 2:15 pm	<b>Lunch Break, Visiting IGCW Expo</b>		
2:15 pm - 2:45 pm	Mr. Mahesh Chandak, Head of HSE – South Asia & HSE Business Partner for Crop Science Division-APAC, Bayer Cropscience, India	India environmental regulations – From compliance to excellence	How EHS related legislations are evolving, changing expectations of MNCs from their supply chain, best practices & tools to achieve sustainability
2:45 pm - 3:15 pm	Dr. Mritunjan Chaubey, Global Vice President - Environment & Sustainability, UPL Ltd., India	Case study on ensuring environmental sustainability in Agro Chemical Industries	case study in agrochemical industry related to environmental policy management system, operational eco-efficiency, product stewardship, wastewater management systems & environmental load reduction at source
3:15 pm -3:45 pm	Gharda Chemicals, India		Green Chemistry tools, techniques & Metrics that can be used by Industry, Successful case studies of commercialization of Green Chemistry & Green Engineering ideas/technologies
3:45 pm - 4:30 pm	<b>Tea/Coffee Break, Visiting IGCW Expo</b>		
4:30 pm - 5:00 pm	Dr. Surendra Bhatia, Senior Technical Advisor, Ascenza, India	Flow Chemistry in Agro Chemicals Industry	Application of Flow Chemistry & Micro Flow Reactors to manufacture agro chemicals, its potential & challenges
	<b>Presentations by 2 Solution Providers</b>		
5:00 pm - 5:15 pm	Prof Yogendra Shastri, Assistant Professor, Dept. of Chemical Engineering, IIT-Bombay, India	Renewable bio-hydrogen production using tar-free microalgae gasification	
5:15 pm - 5:30 pm	Mr. Hiren Panchal, Director, S. B. Panchal & Company, India		
5:30 pm - 6:00 pm	<b>Tea/Coffee Break, Visiting IGCW Expo</b>		
6:00 pm - 6:30pm	<b>IGCW2019 Completion Ceremony</b>		

**Industry Mentor:** Dr. Divakar (Ex Director R&T, Syngenta)  
**IIT Mentor:** Dr. Yogendra Shastri, Assistant Professor, Dept. of Chemical Engineering, IIT-Bombay, India  
**Potential Speakers** Mr. Manoj Khanna, FMC (Ref. Mr. Pramod Karlekar)  
Gharda Chemicals