

8th



industrial green chemistry
world

Convention & Ecosystem

6th - 8th October 2025

The Westin Mumbai Garden City

Accelerating
**Industrial Sustainability
& Profitability**
through "Green & Sustainable
Chemistry"



industrial green chemistry

2027

2025

2023

IGCW2021*

IGCW 2019

IGCW 2017

IGCW2015

IGCW2013

IGCW 2011

1950

2000

*IGCW-2021 edition was not organised due to the pandemic.

IGCW 2009

Co-organiser



Government of India
Ministry of Chemicals & Fertilizers
Department of Chemicals & Petrochemicals

Green Chemisree
Foundation

INDUSTRIAL GREEN CHEMISTRY WORLD (IGCW-2025)

India's largest platform dedicated to advancing Green & Sustainable Chemistry for the chemical process industry. Since its inception, IGCW has been catalysing collaborations between industry, academia, regulators, and solution providers—bringing science, innovation, and business together to drive sustainable transformation.

The 8th edition of IGCW will showcase cutting-edge technologies, global perspectives, and actionable pathways that enable the chemical industry to achieve profitability with responsibility.

Our Partners

Co-organiser



रसायन एवं पेट्रो-रसायन विभाग
DEPARTMENT OF
CHEMICALS & PETRO-CHEMICALS



Sustainability Partner



IGCW-2025 Awards' Evening Partner



Green Chemistry Partner



Academia Partner



Technical Session Partners



Associate Partners



Media Partners



Industrial Association Partners



Overall Convention Structure & Day-wise Expected Audience		
Day I, 6th Oct.'25 6 PM to 9 PM	<ul style="list-style-type: none"> ● IGCW-2025 Inauguration ● IGCW EXPO ● Awards' Felicitation Ceremony ● Networking dinner 	Senior Officials from Govt and Regulatory bodies, Global facilitating bodies & Industry Associations, Senior decision makers from the Industry, CXOs, Green Chemistry Solution Providers, Distinguished Rese and Scientists from various Academia & Research Institutes, Students, Media, etc
Day II, 7th Oct.'25 9 AM – 6 PM	<ul style="list-style-type: none"> ● Technical Sessions: <ul style="list-style-type: none"> ➤ Green Chemistry Tools for Process Research ➤ Sustainability & Green Chemistry Metrics ➤ State PCB Conference on "Facilitating Industrial Sustainability & Pollution Prevention using Green Chemistry" ➤ Environment, Health & Safety – Tools & Technologies ➤ Renewable Feedstocks for Decarbonization & Sustainability ● IGCW EXPO 	Leaders from R&D / R&I /R&T, Technology transfer teams, Process scientists, Technical Directors, R&D Head, R&D Managers, Plant and Manufacturing Heads, EHS Head, LCA Managers, State Pollution Control Board officials, etc.
Day III, 8th Oct'25 9 AM – 6 PM	<ul style="list-style-type: none"> ● Technical Sessions <ul style="list-style-type: none"> ➤ Chemo-catalysis for Sustainability ➤ Bio-catalysis: A powerful Tool for Green & Sustainable Chemistry ➤ Green Engineering for Process Safety & Benign Environment ➤ Waste Valorization & Industrial Ecology ➤ Software & Analytical Tools for Green & Sustainable Chemistry ● IGCW EXPO 	

	Industry	Academia	Students
Technical Session Day 1, 7th Oct.	₹ 12,500 + Taxes	₹ 9,375 + Taxes	₹ 6,250 + Taxes
Technical Session Day 2, 8th Oct.	₹ 12,500 + Taxes	₹ 9,375 + Taxes	₹ 6,250 + Taxes
Full Convention 6th to 8th Oct.	₹ 25,000 + Taxes	₹ 18,750 + Taxes	₹ 12,500 + Taxes

To Register visit www.IndustrialGreenChem.com
or Scan the QR code :



For group participation, write to connect@industrialgreenchem.com
OR contact

Mr. Amardeep Gagat: +91 8452894472
Ms. Krishna Padia 9920333228.

IGCW2025 - TECHNICAL SESSION ON GREEN CHEMISTRY TOOLS FOR PROCESS RESEARCH

7th October 2025 (Tuesday) | The Westin Mumbai Garden City

Session Partners:



Session Mentors



Dr. Sudhir Nambiar,
CMC Head Small Molecules,
Syngene International Ltd.



Dr. Rakesheshwar Banddichor, VP
& Head, Chemistry - API - Process
R&D,
Dr. Reddy's Laboratories

Timing	Speaker, Designation, Company		Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
09:30 - 09:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker		
09:40 - 10:15		Dr. Chris Senanayak, Founder, CEO & CSO, TCG GreenChem	Keynote: Novel and Green Synthetic Technologies for Complex API Assembly
10:15 - 10:45		Dr. Bhanu Manjunath Narayan, Director, Syngenta Biosciences Ltd.	Food chemistry and Sustainable Agri-Tech revolution Sustainable innovation in Research and Development - Chemistry driven approaches
10:45 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.		
11:30 - 11:50		Dr. John Warner, President & CEO, The Technology Green House	Noncovalent Derivatization and Mechanochemistry: Green Chemistry tools at the frontier of molecular interfaces
11:50 - 12:10		Dr. Narendra Ambhaikar, Head - R&D and Tech. Lead (India Region), Piramal Pharma Ltd.	Sustainability Through Simplicity: Reinventing API Pathways
12:10 - 12:30		Dr. K. Raja, Head - R&D, Godrej Industries Ltd. (Chemicals)	Integrating Green Chemistry Principles in Oleochemical and Specialty Chemicals Process Development
12:30 - 12:50		Dr. Surya Manisha Inukonda, Sr. Process Engineering Scientist - API, IPDO, Dr. Reddys Laboratories Ltd.	A Versatile Flow Electrochemical Methodology for the Manufacturing of Pharmaceutically Relevant Sulfoxides and Sulfones from Thioethers
12:50 - 13:15		Moderator: Dr. Sudhir Nambiar, CMC Head Small Molecules, Syngene International Ltd.	Q&A and Open Discussion
13:15 - 14:30	Lunch Break, Visiting IGCW Expo.		
	Tools by ACS Green Chemistry Institute Pharmaceutical Roundtable (GCIPR), USA		
14:30 - 15:00		Dr. Juan Colberg, Senior Director Technology & Innovation, Global Green Chemistry Leader, Pfizer	Introduction to Pharmaceutical Roundtable & Flow Chemistry in API Synthesis
15:00 - 15:30		Dr. Alvaro Enriques, Research Scientist, Eli Lilly & Co.	Solvent & Reagent Selection Guide, GCIPR Medicinal Chemistry Publication Discussion
15:30 - 16:00		Dr. David Thiasrivongs, Director - Process Research & Development, Merck & Co Inc	Green by design: Sustainable process development at Merck
16:00 - 16:30		Dr. Benjamin Kühne, Group Lead - Sustainability Assessments, Merck KGaA	TPA (Topic - Process Mass Intensity (PMI) and LCA Tools in API)
16:30 - 17:00		Dr. Jie Xiu, Amgen	Title of presentation awaited
17:00 - 17:20		Ms. Ashwini Gunnal, Head - R&D, Newreka GreenSynth Technologies Pvt. Ltd.	TPA (Topic - Tool for selective reduction of Nitro Groups)
17:20 - 17:30	Mentors for the Session		Closing Remarks & Acknowledgements
17:30 - 18:00	Tea/Coffee Break, Visiting IGCW Expo		

For more details, contact Mr. Prakash Dussa: ☎ +91 7709 069 321 / 9920 333 228 ✉ prakash.dussa@industrialgreenchem.com

IGCW2025 - TECHNICAL SESSION ON ENVIRONMENT, HEALTH & SAFETY (EHS) - TOOLS & TECHNOLOGIES

7th October 2025 (Tuesday) | The Westin Mumbai Garden City

Session Mentors



Mr. Sushil Kharkwal,
Head - EHS,
**Alembic
Pharmaceutical Ltd.**



Mr. Vidiyala Ravi,
Advisor - Process Safety,
PI Industries Ltd.



Mr. Kumar Krishna
Bhattacharjee, Lead-
HSE Third party Risk
Management, HSE & ES
Operations,
Novartis

Timing	Speaker, Designation, Company		Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
09:30 - 09:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker		
09:40 - 10:15		Mr. Aditya Gurudanti, Associate Director & Head, Stirrup Sustainability Advisory	Keynote: Sustainability@2030
10:15 - 10:45		Mr. Pratik Sharma, Corporate Head -Health, Safety, Compliance & Sustainability, Aarti Industries Ltd.	Best process safety practices for chemical storage tanks Safety
10:45 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.		
	People, Process and Plant Safety		
11:30 - 11:50		Prof. Rajgopalan Srinivasan, Professor of DART Lab, Dept. of Chemical Engineering, IIT-Madras	Can AI be a Game Changer for Process Safety? A Personal Perspective
11:50 - 12:10		Mr. Vijay Bhujle, Directorm, GVS Cibatech Pvt. Ltd.	Reactive Hazards
12:10 - 12:30		Mr. P. Murali, Vice President and Head - Health, Safety and Environment, Nayara Energy	Competency development for Effective Process Safety management
12:30 - 12:50		Mr. Rahul Raman, Principal Engineer, Keypear Consulting	Thermal Stability of Chemicals and Vent Sizing using DiERS Methodology
12:50 - 13:10		Mr. Ranga Shingte, Founder, Chairman & MD, SWASYA Solutions Pvt. Ltd.	Asset Integrity - A Whole System View
13:10 - 13:30	Panel Discussion		
13:30 - 14:30	Lunch Break, Visiting IGCW Expo.		
	Environment		
14:30 - 14:50		Mr. Manish Pandya, Associate, AECOM India Pvt. Ltd.	Keynote: Title of presentation awaited (Topic - Impact of Environmental Local & International Regulations on Chemical Industry)
14:50 - 15:10		Mr. Ajitpal Singh, Vice President - EHS, PI Industries Ltd.	"Building Resilient Partnership" with Toll Manufacturers
15:10 - 15:30		Mr. Manjit Singh, Founder, Sustainability Edge Consulting	Potent Chemicals in Environment from Dyes, Agro Chemicals and Pharmaceutical Industries - Key impact of Pharmaceuticals in Environment and Learnings
15:30 - 15:50		Mr. Srinivasa Rao M., Assistant Vice President - EHS, Laurus Labs Ltd.	Title of talk awaited (Environmental Initiatives and Innovative technologies for waste management at Laurus Labs)
15:50 - 16:15		Moderator: Mr. B. R. Naidu, Former Director, Central Pollution Control Board (CPCB) and Chairman, Rule 9 Authorization Committee, MPCB	Q&A and Open Discussion with Speakers
16:15 - 16:45		Mr. Vivek Nair, Lead Technology & Marketing, Murugappa Water Technology and Solutions Pvt. Ltd.	Latest innovations in water and wastewater technologies
16:45 - 17:00		Mr. Hemanth Satyanarayana, Founder & CEO, Imagine	AI Powered Workflows for Process Safety and Compliance
17:00 - 17:15		Mr. Mandar Prabhune, Technical Head, Transchem Agritech Pvt. Ltd.	Trans Bio-Filter Waste Water Treatment Technology
17:15 - 17:30	Exhibitor Presentation		
17:30 - 17:35	Mentors for the Session		
17:35 - 18:00	Tea/Coffee Break, Visiting IGCW Expo		
	Closing Remarks & Acknowledgements		

For more details, contact Mr. Prakash Dussa: ☎ +91 7709 069 321 / 9920 333 228 ✉ prakash.dussa@industrialgreenchem.com



IGCW2025 - TECHNICAL SESSION ON RENEWABLE FEEDSTOCKS FOR DECARBONIZATION & SUSTAINABILITY

7th October 2025 (Tuesday) | The Westin Mumbai Garden City

Session Mentors



Dr. Sangeet Srivastava,
Executive Director,
Godavari Biorefineries Ltd.



Dr. Sasisanker Padmanabhan,
Sr. Principal Scientist,
Praj Industries Ltd.

Timing	Speaker, Designation, Company		Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
09:30 - 09:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker		
09:40 - 10:15		Dr. Ashok Pandey, ED, Centre for Energy & Enviromental Sustainability	Keynote: Biomass to fuels and chemicals for energy and environmental sustainability
10:15 - 10:50		Dr. Pramod Kumbhar, President & CTO, Praj Matrix R&D	Keynote: Biorefineries: Making every carbon count
10:50 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.		
11:30 - 12:00		Dr. Vikram Vishal, Professor, Department of Earth Sciences, IIT-Bombay	Carbon capture, utilization and storage (CCUS) – A roadmap for India
12:00 - 12:30		Dr. Asim Bhoumik Associate Editor, Green Chemistry, School of Materials Sciences, Indian Association for the Cultivation of Science	Porous Nanomaterials as Catalyst for Fixation of CO2 into Chemicals
12:30 - 13:15		Panel Discussion: "Availability of Feedstocks for Chemicals"	
		Moderator: Dr. Sangeeta Srivastava, Executive Director, Godavari Biorefineries Ltd.	
		Panel Members:	
		1. Dr. Pramod Kumbhar President & CTO, Praj Matrix R&D	
		2. Dr. Nirmala Kaushik, Scientist-F and In-charge (Fin.& Acct), Technology Information, FORECASTING AND ASSESSMENT COUNCIL (TIFAC)	
		3. Capt. Kapildev Bahl, Board Member, India Centre for Climate and Societal Impacts Research	
		4. Mr. Sudhakar DGS, Scientific Manager, L'Oreal Research & Innovation	
		5. Lt. Col. Monish Ahuja (Retd.), CMD, Punjab Renewable Energy Systems Pvt. Ltd. (PRESPL)	
13:15 - 14:30	Lunch Break, Visiting IGCW Expo.		
14:30 - 15:00		Col. Rohit Dev, Managing Director & Founder, Reveille Energy	Biomass Spurs the Bioenergy Space : Challenges and Opportunities in a Promising Way Ahead
15:00 - 15:30		Dr. Nirmala Kaushik Scientist-F and In-charge (Fin. & Acct) Technology Information, Forecasting and Assessment Council (TIFAC)	Biomass Assessment and understanding the data on availability
15:30 - 16:00		Mr. Sudhakar DGS, Scientific Manager, L'Oreal Research & Innovation	Unlocking High-Value Bio-derived Compounds from Renewable Feedstock: A Sustainable Approach Through Integrated Biomass Discovery and Green chemistry
16:00 - 16:30		Dr. Suhas Dixit, CEO, AP Chemi	Leveraging Biochar Solutions to Meet India's GHG Emission Intensity Target Rules, 2025: A Strategic Pathway for Chemical Industry Compliance
16:30 - 17:00		Mr. Suhas Baxi, Co-founder & Chairman, Biofuel Circle Pvt. Ltd.	Digitally Enabling Rural circular economy for Agri biomass
17:00 - 17:15		Dr. Vanita Prasad, Founder, Director & CTO, Revy Environmental Solutions Pvt. Ltd.	Biological Hydrogen Production
17:15 - 17:30		Mr. Akash Singh, Founder & CEO, Unbubble	Plant-based, biodegradable & Cost eddective packaging material
17:30 - 17:35		Mentors for the Session	Closing Remarks & Acknowledgements
17:15 - 18:00	Tea/Coffeee Break. Visiting IGCW Expo		

IGCW2025 - CONFERENCE ON "FACILITATING INDUSTRIAL SUSTAINABILITY & POLLUTION PREVENTION THROUGH GREEN CHEMISTRY"

7th October 2025 (Tuesday) | The Westin Mumbai Garden City

Co-organisers:



Supported by:



Session Mentors



Dr. Ajay Deshpande,
Adjunct Professor,
Centre for Policy
Studies, **IIT-Bombay**



Dr. Rakesh Kumar,
President, Society for
Indoor Environment
(SIE); Ex-Director, **NEERI**



Mr. Mahesh Patil,
Consultant Sustainability &
Environmental Compliance;
Ex-Chairman, **Goa State
Pollution Control Board**

Timing	Speaker, Designation, Company	Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo	
09:30 - 09:40	Session Mentors Welcome, Acknowledgement, Self-Introduction, Creating Context for the workshop	
09:40 - 09:50	Dr. Avinash Dhakne, IAS, Member Secretary, Maharashtra Pollution Control Board (MPCB) , (Invited)	Inauguration, Welcome and Sharing MPCB's Initiatives
09:50 - 10:50	Panel Discussion: Roadmap for Implementation of Circular Economy in States Moderator: Dr. Rakesh Kumar, President, Society for Indoor Environment and Ex-Director, CSIR-NEERI Panel Members:	
	1. Mrs. Jayashree Bhoj, Secretary, Environment Dept., Govt. of Maharashtra (Invited)	2. Dr. Avinash Dhakne, IAS, Member Secretary, Maharashtra Pollution Control Board (MPCB) , (Invited)
	3. Mr. D. M. Thaker, Member Secretary, Gujarat State Pollution Control Board (GPCB) (Invited)	4. Mr. Srinivasulu, Principal Secretary, Forest Ecology & Environment, Govt. of Karnataka
	5. Mr. G. Ravi, IAS, Member Secretary, Telangana State Pollution Control Board (TSPCB)	6. Ms. Dipti Kapil, Additional Director, Central Pollution Control Board (CPCB) (Invited)
	7. Dr. Shilpi Kapur, Vice President, Environment Management Centre (EMC)	8. Prof. Anurag Garg, Professor, Dept of Environmental Science and Engg., IIT-Bombay
	9. Mr. Ajay Popat, Senior Advisor, Ion Exchnage India Ltd.	
10:50 - 11:45	Tea/Coffee Networking Break, Visiting IGCW Expo.	
	New Emerging Regulations	
11:45 - 12:15	Speaker to be Confirmed, MoEFCC (Invited)	Eco-Mark
12:15 - 12:45	Mr. B. R. Naidu, Ex-Director Central Pollution Control Board (CPCB); Chairman, Rule 9 Authorization Committee, MPCB	Regulatory Framework- FAQs
12:45 - 13:15	Dr. A. Ramesh Kumar, Principal Scientist - Solid & Hazardous Waste Management Division, CSIR-NEERI	Phasing out POPs and other chemicals of concern from production and use - Towards green and sustainable chemistry
13:15 - 13:45	Mr. Pratik Bharne, Director, Regional Directorate - Pune, Central Pollution Control Board (CPCB)	EPR - Plastics and Packaging Materials
13:45 - 15:00	Lunch Break, Visiting IGCW Expo.	
	Emerging Concepts and Innovating Technologies	
15:00 - 15:30	Mr. Babubhai C. Patel, Chairman, Nandesari Industries Association (NIA)	Industrial Wastewater Treatment by latest Advanced Oxidation Process of Hydrodynamic Cavitation
15:30 - 16:00	Mr. Jitendra Vakharia, President, South Gujarat Textile Processors Association (SGTPA)	TPA (Topic - Idea and Implementation of Air Emission and Water Trading)
	Dr. K. D. Yadav, Professor, Environmental Engineering Section, Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT)	
16:00 - 16:15	Sr. representative from Indian Chemical Council (ICC)	TPA (Topic - Industry's Initiatives towards Sustainability)
16:15 - 16:30	Mr. Niroj Mohanty, MD, Core CarbonX Solutions	Nature-based Solution for Industrial Sustainability & Decarbonisation
16:30 - 16:45	Mr. Prashant Wagh, Director, Aqura Enviro Projects Pvt. Ltd.	Green Chemistry: A Landscape of Opportunities in the Carbon Market
16:45 - 17:00	Mr. Vishal Budhia, Chairman & MD, Steam House	Sustainable Steam: Community Boilers for Greener Industry
17:00 - 17:15	Dr. Ninad Gujarathi, Founder, Enviroalgae Technologies Pvt. Ltd.	Microalgae-based Circular Economy for Wastewater Valorisation
17:15 - 17:30	Mr. Vivek Nair, Lead Technology & Marketing (IWM), Murugappa Water Technology & Solutions Pvt. Ltd.	Driving sustainable, efficient and safe cooling water operation through technology integration
17:30 - 17:35	Mentors for the Session	
17:35 - 18:00	Tea/Coffee Break, Visiting IGCW Expo	

IGCW2025 - TECHNICAL SESSION ON "SUSTAINABILITY & GREEN CHEMISTRY METRICS"

7th October 2025 (Tuesday) | The Westin Mumbai Garden City

Session Mentors



Prof. Brajesh Kumar Dubey,
Professor - Circular Engineering (Dept. of
Civil Engg.) and Chairperson - School of
Water Resources, **IIT-Kharagpur**



Mr. Anand Sekar,
Leader, LCA Global Centre of Excellence,
SABIC



Mr. Rajesh Mehta,
Senior Consultant,
Energy & Materials Transition,
TNO



Ms. Avantika Shastri,
Manager, Centre for Sustainability, **Eaton**

Timing	Speaker, Designation, Company		Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
09:30 - 09:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker		
09:40 - 10:15		Mr. Ananda Sekar, Leader, LCA Global Centre of Excellence, SABIC	Decoding Sustainability Terminologies / Demistifying Carbon Jargon
		Mr. Rajesh Mehta, Senior Consultant - Energy & Materials Transition, TNO	
		Ms. Avantika Shastri, Manager, Centre for Sustainability, Eaton	
10:15 - 10:45		Dr. Meghana Mulagana, Senior Program Associate - Climate, Economics and Finance Program, World Resources Institute (WRI) India	Beyond Compliance: Sustainable Process Optimization in Manufacturing
10:45 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.		
	Session on Life Cycle Assessment (LCA)		
11:30 - 11:55		Prof. Brajesh Kumar Dubey, Professor - Circular Engineering (Dept. of Civil Engg.) and Chairperson - School of Water Resources, IIT-Kharagpur	TPA (Topic - Basics of LCA)
11:55 - 12:20		Dr. Rajesh Singh, Vice President - Sustainability Consulting, Sphera	TPA (Topic - LCA Automation Tools and other Sustainability Tools)
12:20 - 12:45		Mr. Sunil Kumar, Head, SIPL Pvt. Ltd.	ERA LCA-Chem - Sustainable solution for Chemical and Pharma domains
12:45 - 13:10		Mr. Gulab Malunekar, Research Scientist - LCA, Dow India Technology Center	Beyond the Surface - A Journey through Life Cycle Assessment
13:10 - 13:30		Moderator: Prof. Brajesh Kumar Dubey	Q&A and Open Discussion
13:30 - 14:30	Lunch Break, Visiting IGCW Expo.		
14:30 - 15:00		Ms. Archana Datta, Associate Programme Management Officer, United Nations Environment Programme (UNEP)	TPA (Topic - Road to Net Zero / Carbon Markets)
15:00 - 15:30		Mr. Mike Danielson, Industry Lead, Science Based Targets Initiative (SBTi)	Climate Action and Science-based Target-setting in the Chemicals Sector
15:30 - 16:00		Mr. Masaaki Toma, Research Planning & Coordination and Dept. of Carbon Neutral Strategy Cross-Functional Team, Sumitomo Chemicals Co, Ltd.	Development and Dissemination of CFP-TOMO®, a Carbon Footprint Calculation Tool for Chemical Products
16:00 - 16:30		Mr. Rajiv Gaur, VP – Head of Procurement & Logistics, Lanxess .	Topic: Introduction to Together for Sustainability (TfS)
		Mr. Raghavendra Pai, India Sustainable Sourcing Lead, Syngenta Global Capability Center Pvt. Ltd.	Topic: Introduction to TfS Product Carbon Footprint Guidelines (Scope 3 GHG Emission) and SiGREEN Exchange solution
16:30 - 17:00		Mr. Biju Baby, Co-Founder, Bacuti Inc.	Modernizing PCFs
17:00 - 17:30		Panel Discussion: AI Deployment for Sustainable Metrics in the Chemical Industry Moderator: Ms. Avantika Shastri, Manager, Centre for Sustainability, Eaton Panel Members:	
		1. Ms. Ashwini Higne, Associate Program Director - Climate, Economic and Finance Program, World Resources Institute (WRI) India	 2. Mr. Rajesh Srinivasaraghavan, Co-Founder, Bacuti
		3. Mr. Rajesh Mehta, Senior Consultant - Energy & Materials Transition, TNO	 4. Ms. Hiranmayee Kanekar, Consulting Manager - ESG & LCA Consulting, Ramboll
		5. Ms. Hetal Udas, Manufacturing Success Team Leader, One Click LCA	
17:30 - 17:40	Mentors for the Session		Closing Remarks & Acknowledgements
17:40 - 18:00	Tea/Coffee Break, Visiting IGCW Expo		

For more details, contact Mr. Prakash Dussa: ☎ +91 7709 069 321 / 9920 333 228 ✉ prakash.dussa@industrialgreenchem.com



IGCW2025 - TECHNICAL SESSION ON CHEMO-CATALYSIS FOR SUSTAINABILITY

8th October 2025 (Wednesday) | The Westin Mumbai Garden City

Session Mentors



Prof. Anant Kapdi,
Assistant Editor, Sustainability &
Circularity Now; Assistant Professor,
**Institute of Chemical Technology
(ICT)**



Dr. Raksh Vir Jasra,
Sr. Vice President - R&D,
Reliance Industries Ltd.

Timing	Speaker, Designation, Company		Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
09:30 - 09:40	Industry & Academic Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop		
09:40 - 10:10		Keynote: Prof. Sachin Handa, Associate Professor of Chemistry, University of Missouri (Invited)	TPA (Topic - Chemistry in Water)
10:10 - 10:40		Prof. Buddhadeb Chattopadhyay, Associate Professor, Indian Institute of Science Education & Research (IISER) - Pune	Catalyst Engineering for Direct C-H Bond Functionalization
10:40 - 11:10		Dr. Akshai Kumar Alape Seetharam Associate Professor, Department of Chemistry; Head, Centre for Nanotechnology Indian Institute of Technology - Guwahati	Pincer-Metal Catalysis for Generation of Hydrogen, Fuel & Specialty Chemicals
11:10 - 12:00	Tea/Coffee Networking Break, Visiting IGCW Expo.		
12:00 - 12:30		Keynote: Prof. Debabrata Maiti, Institute Chair Professor, Department of Chemistry & Centre for Climate Studies, IIT-Mumbai	Unlocking new chemical space via selective catalysis
12:30 - 13:00		Dr. Thomas Colacot VP - R&D, Hindustan Platinum Ltd.	Pd Catalyzed Cross-Coupling for Sustainable API Synthesis
13:00 - 13:30		Prof. Chris Sloopweg, Full Professor - Circular Chemistry, Faculty of Science, University of Amsterdam (Online)	Smarter Chemistry, Green, Circular and Safe by Design
13:30 - 14:45	Lunch Break, Visiting IGCW Expo.		
14:45 - 15:15		Keynote: Prof. D. B. Ramachary, Senior Professor of Chemistry, Catalysis Laboratory, School of Chemistry, University of Hyderabad	Discovery of New Catalytic Click Reactions for Sustainable Future
15:15 - 15:45		Prof. Ekambaram Balaraman, Associate Professor Chair, Department of Chemistry, IISER Tirupati	Sustainable Chemical Production via Catalytic Dehydrogenation Strategy
15:45 - 16:15		Prof. Dr. Venkata Krishnan, Professor, School of Chemical Sciences and Advanced Materials Research Center, Indian Institute of Technology - Mandi	Sustainable Non-noble Metal based Catalysts for the Green Synthesis of Active Pharmaceutical Ingredients and other Value added products
16:15 - 17:00		Panel Discussion: "How Green and Sustainable is my Catalyst?" Moderator: Dr. Raksh Vir Jasra, Sr. Vice President - R&D, Reliance Industries Ltd. Panel Members:	
		1. Dr. Thomas Colacot, VP, R & D, Hindustan Platinum	2. Dr. Shriram Joshi, Director, Innovation Development Asia, Evonik India Pvt. Ltd.
		3. Dr. John Warner, Founder, The Technology Green House	4. Dr. Chinranjeevi Thota, General Manager - R&D, BPCL
17:00 - 17:10		Dr. Satish Lanke, Founder & MD, Catalytic Technologies LLP	Sustainable Palladium Catalysis for sustainability - Recent Developments, Engineering and Economics
17:10 - 17:20	Exhibitor's Presentation 2		
17:20 - 17:30	Industry & Academic Mentors for the Session		Closing Remarks & Acknowledgements
17:30 - 18:00	Tea/Coffee Break, Visiting IGCW Expo		



IGCW2025 - TECHNICAL SESSION ON BIOCATALYSIS - A POWERFUL TOOL FOR GREEN AND SUSTAINABLE CHEMISTRY

8th October 2025 (Wednesday) | The Westin Mumbai Garden City

Session Mentors



Dr. Mofazzal Husain,
Associate Director, Bio R&D,
Lupin Ltd.



Dr. Shamlan Reshamwala,
Assistant Professor,
**Center of Energy Biosciences,
ICT**

Timing	Speaker, Designation, Company	Topic / Title of Presentation
8:30 - 9:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo	
9:30 - 9:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker	
9:40 - 10:15	 Dr. David Thaisrivongs, Director - Process Research & Development, Merck & Co Inc, USA	Keynote: The largest small molecule: Manufacturing process for enlicitide decanoate
10:15 - 10:45	 Dr. Ahir Pushpanath, Techno Commercial Director - Biocatalysis, bitBiome	Biocatalysis 4.0: Accelerating Green Chemistry from Enzyme Discovery to Commercial Deployment
10:45 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.	
11:30 - 12:00	 Dr. David Entwistle, Head of Process Chemistry, Codexis	Engineering Enzymes for Cascade Reactions at Tonne Scale
12:00 - 12:30	 Dr. Saravanan Jothi, CSO, Shasunmed Life-Sciences Pvt. Ltd.	Case studies and research insights on bile acid and steroid biotransformation for industrial relevance
12:30 - 13:00	 Dr. Chandrasen Chandwad, Associate GM Biocatalysis - API Research, Piramal Pharma Ltd.	Commercial Scale Biocatalysis : Approach and realities
13:00 - 13:30	 Mr. Abhijit Rath, GM-R&D, Advanced Enzymes Pvt. Ltd.	Biocatalyst: The future and its role in developing future
13:30 - 14:30	Lunch Break, Visiting IGCW Expo.	
14:30 - 15:00	 Prof. Amit Pratap, Professor & Head, Institute of Chemical Technology (ICT)	Title of Talk awaited
15:00 - 15:30	 Dr. Pravin Kumar, Founder, Chairman & CSO, Kcat Enzymatic Private Limited	AI-Driven Protein Engineering: Enzymes for Therapeutics and Sustainable Chemical Synthesis
15:30 - 16:15	 Panel Discussion: "Bioprospecting for Novel Enzymatic Routes" Moderator: Dr. Mofazzal Husain Panel Members:	
	 1. Dr. Santosh Kumar Padhi, Professor, Biocatalysis and Enzyme Engineering Laboratory, University of Hyderabad	 2. Dr. Ahir Pushpanath, Techno Commercial Director - Biocatalysis, bitBiome
	 3. Dr. Saravanan Jothi, CSO, Shasunmed Life-Sciences Pvt. Ltd.	 4. Dr. Pravin Kumar, Founder, Chairman & CSO, Kcat Enzymatic Private Limited
16:15 - 16:30	 Mr. Nagaraj Maddur, Principal Scientist (Biocatalysis), Advanced Enzymes Technologies Pvt. Ltd.	Recent advances in biocatalysis: A case study
16:30 - 16:45	 Mr. Gladstone Sigamani, CEO, Kcat Enzymatic Private Limited	Enzyme Industrial Revolution: from Lab scale to Industry Scale
16:45 - 17:00	 Dr. T. Kumaraguru, Senior Scientist, Department of Organic Synthesis and Process Chemistry (OSPC), CSIR-Indian Institute of Chemical Technology (IICT)	Role of Biocatalysis in Advancing Sustainable API Process Development
17:00 - 17:10	Mentors for the Session	
17:10 - 18:00	Tea/Coffee Break, Visiting IGCW Expo	
17:00 - 17:10	Closing Remarks & Acknowledgements	

IGCW2025 - TECHNICAL SESSION ON GREEN ENGINEERING FOR PROCESS SAFETY & BENIGN ENVIRONMENT

8th October 2025 (Wednesday) | The Westin Mumbai Garden City

Session Mentors



Dr. Sandeep Jain,
Sr. Director - Special Technologies,
PI Industries Ltd.



Dr. Suhas Jawlekar,
Associate Director - Process
Engineering, Polymorph
development & New technology,
Dr. Reddy's Labs Ltd.

Timing	Speaker, Designation, Company	Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo	
09:30 - 09:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker	
09:40 - 10:15	 Mr. Pradeep Kumar Jain, COO, PI Industries Ltd.	Keynote: Green Engineering for Process Safety and Benign Environment
10:15 - 10:50	 Dr. Ralph Zhao, Sr. Principal Scientist, Environmental and Process Safety Engineering (EPSE) Lead, Merck & Co Inc, USA	Keynote: Chemical Process Safety Testing Considerations for Pharmaceutical Scale-Up from Lab to Plant
10:50 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.	
11:30 - 12:00	 Dr. Sandeep Mohanty, Head - API Synthetic & Oncology R&D, Biocon Ltd.	The Flow: A Human Centered Sustainability in Green Manufacturing - A Philosophical Framework
12:00 - 12:30	 Mr. Sangam Shaha, Manager - Process Engineering, BASF Chemicals India Pvt. Ltd.	Sustainability Engineering – Energy Transformation and Heat Recovery
12:30 - 13:00	 Dr. Devender Mandala, Director, Aurigene Pharmaceutical Services (Invited)	Title of presentation awaited (Topic - Case Studies in Flow Chemistry and Continuous Technology)
13:00 - 13:30	 Mr. Bhavik Shah, Head - Flow Chemistry, UPL Ltd.	Greening a Legacy Batch Process via Flow
13:30 - 14:30	Lunch Break, Visiting IGCW Expo.	
14:30 - 15:15	 Panel Discussion: "How new emerging technologies can make processes greener and safer?" Panel Moderator: Dr. Suhas Jawlekar, Associate Director - Process Engineering, Polymorph development & New technology, Dr. Reddy's Laboratories Ltd. Panel Members:	
	 1. Mr. Subhash Dhar - Head of Engineering Excellence, Dr. Reddy's Laboratories Ltd.	 2. Dr. Sandeep Mohanty, Head - API Synthetic & Oncology R&D, Biocon Ltd.
	 3. Dr. Ralph Zhao Sr. Principal Scientist, Environmental and Process Safety Engineering (EPSE) Lead, Merck & Co Inc.	 4. Dr. Sandeep Jain - Sr. Director - Special Technologies, PI Industries Ltd.
	 5. Dr. Vishwanath Dalvi - R. A. Mashelkar Assistant Professor, Department of Chemical Engineering, Institute of Chemical Technology	
15:15 - 15:45	 Dr. Sanket Salgaonkar, Principal Engineer - Autochem Scale-up Systems, Mettler Toledo India Pvt. Ltd.	Prowess of mechanistic modelling in sustainable scale up of a coumarin intermediate
15:45 - 16:15	 Dr. Gopal Kasat, Project Manager, Tridiagonal Solutions	Good Mixing Makes Money
16:15 - 16:30	 Dr. Chandrakant Gadipelly, Head of Flow Reactors, Amar Equipment Pvt. Ltd.	Rethinking Aromatic Nitration: Sustainable Continuous Flow Technology without Mixed Acids
16:30 - 16:45	 Dr. Makrand Pimplapure, MD, MaxSpeed Technologies Pvt. Ltd.	From Lab to Production: Safer and Greener Chemical Processes Using Flow Technology
16:45 - 17:00	 Mr. Abhijeet Kulkarni, MD & CEO, Proburgeon Pvt. Ltd.	Implementation of Flow Reactor Technology as a greener Production route
17:00 - 17:15	 Mr. Chandrakant K Sethia National Head – Sales & Business development, Corning Advanced-Flow Reactor (AFR) Technologies	Efficiency, Innovation, and Sustainability: "Continuous chemical manufacturing with Corning AFR"
17:15 - 17:25	Mentors for the Session	
17:25 - 18:00	Tea/Coffee Break, Visiting IGCW Expo	

For more details, contact Mr. Prakash Dussa: ☎ +91 7709 069 321 / 9920 333 228 ✉ prakash.dussa@industrialgreenchem.com

IGCW2025 - TECHNICAL SESSION ON SOFTWARE & ANALYTICAL TOOLS FOR GREEN & SUSTAINABLE CHEMISTRY

8th October 2025 (Tuesday) | The Westin Mumbai Garden City

Session Mentors



Dr. Gautam Samanta,
Director,
AGS Pharma Consulting



Dr. R. Srividya, Global
Head CDMO DS,
Aurigene Pharmaceutical Services Ltd.



Dr. Kaustav Chakraborty,
R&I and Funding
Excellence Manager,
Syensqo

Timing	Speaker, Designation, Company		Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
09:30 - 09:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker		
09:40 - 10:15		Dr. Todd Maloney, Associate Vice President, Eli Lilly & Company (Invited)	Title of talk to be confirmed
10:15 - 10:45		Dr. Aruna Khanolkar, Director, Quality by Design (QbD) & Operational Excellence, Cipla Ltd.	Process Analytical Technology - a green analytical choice for real time monitoring
10:45 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.		
11:30 - 12:00		Dr. Ninad Loke, Tech Lead - Process Engineering, Dr. Reddys Laboratories Ltd.	Application of Modeling & Simulation in API Processing - Computational Fluid Dynamic
12:00 - 12:30		Dr. Gautam Samanta, Director, AGS Pharma Consulting	The Role of Design of Experiments in Advancing Industrial Green Chemistry
12:30 - 13:00		Ms. Manasa Jayavibhava, Process Engineer, Syngene International	A QbD driven approach to eco friendly processes using simulation and mathematical models
13:00 - 13:30		Mr. R. N. Mohanty, President, Pidilite Industries Ltd.	Computational Chemistry at Pidilite
13:30 - 14:30	Lunch Break, Visiting IGCW Expo.		
14:30 - 15:00		Mr. Rajesh Srinivasaraghavan, Co-founder, Bacuti	AI for your Net Zero
15:00 - 15:30		Dr. Sanket Salgaonkar, Principal Engineer - Autochem Scale-up Systems, Mettler Toledo India Pvt. Ltd.	Title of talk to be confirmed
15:30 - 16:00		Dr. Manish Khandagale, Solutions Consultant - Lab Informatics, Rivvity Signals	Signals for Smarter Labs: Catalyzing Sustainable Science Through Digital Transformation
16:00 - 16:15		Mr. Dinesh Malviya, Country Head (India & Asia Region), VisiMix	Process & Role of Mixing – VisiMix Way
16:15 - 16:30		Dr. Gopal Kasat, Project Manager, TriDiagonal Solutions Pvt. Ltd.	MixIT : Streamline Mixing Scale-Up & Tech-Transfer with CFD Digital Twins
16:30 - 16:45		Mr. Prasad Bidwe, Senior Sales and Product Specialist – APAC Region, Merck Life Science Pvt. Ltd.	Advancing Sustainable Synthesis with SYNTHIA® Retrosynthesis Software
16:45 - 17:00		Dr. Nabin Sarkar, Customer Success Specialist (CSS), ACS India Pvt. Ltd	Sustainable Breakthroughs with CAS SciFinder Discovery PlatFormTM: Innovating Green Chemistry Through Smart Analytics
17:00 - 17:15		Mr. Kingston Arulappan Felix Elango, Technology Solutions Consultant – Scientific AI & Automation, Zifo RnD Solutions	AI Enabled Chemistry Data Lifecycle Optimization
17:15 - 17:25		Mentors for the Session	Closing Remarks & Acknowledgements
17:25 - 18:00	Tea/Coffee Break, Visiting IGCW Expo		

For more details, contact Mr. Prakash Dussa: ☎ +91 7709 069 321 / 9920 333 228 ✉ prakash.dussa@industrialgreenchem.com

IGCW2025 - TECHNICAL SESSION ON WASTE VALORISATION & INDUSTRIAL ECOLOGY

8th October 2025 (Wednesday) | The Westin Mumbai Garden City

Session Mentors



Mr. Ulhas Parlikar, Global Consultant
- Waste Management, Circular
Economy,
Policy Advocacy & Co-processing



Ms. P. Bineesha, Executive Director,
**International Institute of Waste
Management (IIWM)**

Timing	Speaker, Designation, Company		Topic / Title of Presentation
08:30 - 09:30	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
09:30 - 09:40	Mentors for the Session Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker		
09:40 - 10:15		Dr. John Warner, President & CEO, The Technology Green House	The Sustainability Pendulum: Green Chemistry and the Bioeconomy
10:15 - 10:45		Mr. Venkatanath Kandalla, Executive VP & Head - Industrial Chemical Division, Ion Exchange Ltd.	From Waste to Wealth - Unlocking the true potential of Waste Valorisation
10:45 - 11:30	Tea/Coffee Networking Break, Visiting IGCW Expo.		
11:30 - 11:50		Mr. Tapas Saha, Senior Vice President - EHS & Sustainability, Aurobindo Pharma Ltd.	TPA
11:50 - 12:10		Dr. Debabrata Rautaray, Vice President - Chief Product Development & Innovation Officer, DCM Shriram Ltd.	Circular Chemistry: Industrial By-products for Sustainable Chemicals and Materials Innovation
12:10 - 12:30		Dr. Dhiraj Singh Yadav, Vice President - Research & Development, Excel Industries Ltd.	Optimization and recycling of process water to minimize freshwater consumption and reduce effluent load, implemented as part of our green initiatives
12:20 - 12:40		Dr. Kamlesh Fondekar, Head - R&D, Godrej Agrovet Ltd. (Invited)	Title of presentation awaited
12:40 - 13:15		Moderator: Mr. Ulhas Parlikar	Q&A and Open Discussion
13:15 - 14:30	Lunch Break, Visiting IGCW Expo.		
14:30 - 15:00		Mr. Surjith Reddy, Executive Director, Dalmia Cement Ltd.	Zero waste to landfill, valorisation methods and critical role of cement industry
15:00 - 15:30		Ms. Parul Nanda, Head of Strategic Sourcing and Solutions, Geoclean (AFR), Adani Cement	TPA
15:30 - 16:00		Mr. Raghunath Ramaiah, Founder & CEO, KIS Group Sustainability	BioMethane for Decarbonization & energy transition of chemical industries: Learning from success story of Unilever & other
16:00 - 16:30		Mr. Suhas Dixit, CEO, AP Chemi	Why advanced recycling of single-use plastic waste cannot be scaled up without cross-value chain collaboration?
16:30 - 16:45		Mr. Vikram Dhuma, Business Head, Geist Research, A Unit of Z-Teach India Pvt. Ltd.	"Is Resource Recovery really Feasible?"
16:45 - 17:00		Dr. Avijit Dey, Vice President, Aquatech Systems (Asia) Pvt Ltd	Circular Feedstocks for Chemical Industries utilizing Seawater Desalination waste Brine Valorization
17:00 - 17:15		Mr. Shashikanth Parcha, Founder & MD, Nano Wings Pvt. Ltd.	Nanomaterials and composites for Agri segment and waste water treatment through solvent retainment applications respectively.
17:15 - 17:30		Mr. Kunal Godambe, Founder, Green Shift Energy Pvt. Ltd.	Novel Approaches in Agricultural and Industrial Waste Valorisation
17:30 - 17:35	Mentors for the Session		Closing Remarks & Acknowledgements
17:35 - 18:00	Tea/Coffee Break, Visiting IGCW Expo		

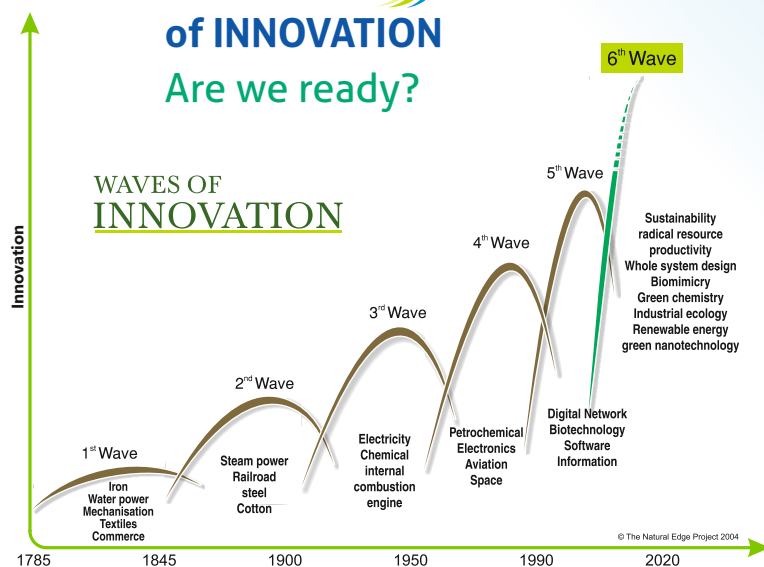
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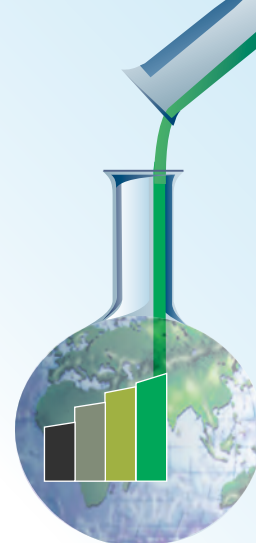
6th - 8th October 2025

The Westin Mumbai Garden City

The
sixth wave
of INNOVATION
Are we ready?



Waves of Innovation Diagram Source: K. C. Hargroves et al (2005, p17)



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