Accelerating Industrial Sustainability & Profitability through “Green & Sustainable Chemistry”

*IGCW-2021 edition was not organised due to the pandemic.
## IGCW-2023 Partners

### Co-organisers

- Green Chemistree Foundation
- Department of Chemicals & Petrochemicals Ministry of Chemicals and Fertilizers Government of India

### Industry Partners

- IGCW '23 Awards Partner
- Green Chemistry Partners

- CSR Partner
- Technical Session Partners
- Cause Partners

- State PCB Conference Partner
- Academia & Research Partner

### Associate Partners

- Indian Chemical Council
- ISCMMA
- CBE
- Roadmap to Zero
- ACS Green Chemistry Institute
- RECYLE
- beyondbenign
- RRMA
- ISC3

### Media Partners

- Chemical Weekly
- Indian Chemical News
- Chemical Industry Digest
The IGCW-2023 will continue to serve as a platform for the chemical industry to explore diverse local and international success stories, models, tools, applications, and solutions for implementing “Green & Sustainable” manufacturing practices as a profit-centric approach to waste prevention and minimisation.

The objectives of 7th IGCW-2023:

- Facilitate learning from global green chemistry leaders and experts
- Bring together key stakeholders of Indian Chemical Industry including senior Govt. officials
- Provide a conducive ecosystem that can accelerate the implementation and industrialization of Green & Sustainable Chemistry
- Enable learning from Industry peers and practitioners of successful case-studies
- Invite subject-specific solutions and technology providers to showcase at IGCW EXPO
- Encourage collaborative initiatives by offering industrial networking platform to Researchers, Scientists, and Technocrats.
- Recognise and acknowledge initiatives in “Green & Sustainable Chemistry” through IGCW-2023 Awards

### Expected Audience

<table>
<thead>
<tr>
<th>Expected Audience</th>
<th>7th Nov. ’23 (Tuesday)</th>
<th>8th Nov. ’23 (Wednesday)</th>
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</thead>
<tbody>
<tr>
<td>R&amp;D Team, Process Research Team, Scale-up &amp; Technology Transfer Team</td>
<td>Green Chemistry Tools for Process Research</td>
<td>Chemo-Catalysis for Sustainability</td>
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<tr>
<td></td>
<td>Renewable Feedstock for Decarbonization &amp; Sustainability</td>
<td>Software &amp; Analytical Tools for Green &amp; Sustainable Chemistry</td>
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<tr>
<td>Bio-Catalysis Team</td>
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<td>Bio-Catalysis: A Powerful tool for Green &amp; Sustainable Chemistry</td>
</tr>
<tr>
<td>Production Team, Process Engineering Team, Scale-up &amp; Technology Transfer Team</td>
<td>Sustainability &amp; Green Chemistry Metrics</td>
<td>Green Engineering for Process Safety &amp; Benign Environment</td>
</tr>
<tr>
<td>EHS Team, Environment &amp; Sustainability Team, Process Safety Team, Industrial Associations, CETPs, Govt &amp; Regulatory Bodies</td>
<td>Environment, Health &amp; Safety (EHS) – Tools &amp; Technologies</td>
<td>Waste Valorisation &amp; Industrial Ecology</td>
</tr>
</tbody>
</table>
TECHNICAL SESSION ON
GREEN CHEMISTRY TOOLS
FOR PROCESS RESEARCH

7th November 2023 | The Westin Mumbai Garden City

Expected Participants:
Senior Scientists (President, VP, GM, Manager, etc) from R&D, Analytical, Quality Control, Process Development

Objectives:
• To introduce and give demo of Solvent Selection Guide to choose greener alternative solvent.
• To introduce and give demo of Reagent Selection Guide as access to choosing greener reagents.
• To share DOZN and Process Mass Intensity (PMI) as a tools for measuring “Greensness” of process.
• To learn from other companies, Green & Sustainable Chemistry tools they have been using in Process Research.

Session Mentors:
Dr. Sudhir Nambiar, CSO, Solaris Active Pharma Sciences Ltd.
Dr. Rakesh Gaonkar, VP - Research & Technology, Hikal Ltd.

Timing | Speaker | Topic / Title of Presentation
---|---|---
8:30 - 9:30 | Welcome by Session Mentors - Acknowledgement, Self-Introduction & sharing work, Creating Context for the Session
9:30 - 9:40 | Dr. Rakeshwar Bandichhor, VP & Head of Chemistry - API R&D, Dr. Reddys Laboratories and Vice-Chair, ACS-India Chapter | Green Chemistry tools for Process Research at Dr. Reddy's
9:40 - 10:10 | Dr. Ankur Jalan, Advisor - Chemistry, Eli Lilly & Company | Evaluate the Sustainability of Your Chemistry through Solvents Tools and Guides
10:10 - 10:40 | Dr. Bhanu Marjunnath, Director, Research & Technology Centre, Syngenta Biosciences Ltd. | Green and Sustainable Chemistry: Green Chemistry Principles Applications in Agrochemical Research
10:40 - 11:10 |  | Te/Coffee Networking Break, Visiting IGCW EXPO
11:10 - 12:00 | Dr. Harishchandra Jadhav, Assistant Director - Chemical Research, Lupin Ltd. | API case studies developed through application of green principles/technologies
12:00 - 12:30 | Dr. Rebecca Newton, Process Chemistry Team Leader, Sai Life Sciences Ltd | ACS GCI PR Tools for More Sustainable Chemistry – Reagent Guides
12:30 - 13:00 | Mr. Alex Mullen, Senior Product Environmental Specialist, AstraZeneca | Leveraging Life Cycle Assessment for the Production of Greener Medicines
13:00 - 13:30 |  | Lunch Break, Visiting IGCW Expo.
13:30 - 14:15 | Dr. Vilas Dahanukar, R&D Director, Proexp Pharma Pvt. Ltd. | Simple metrics to measure Greensness of our Products & Processes
14:15 - 14:55 | Dr. Andiappan Murugan, VP - API R&D, Troikka Pharmaceuticals Ltd. | How Green is My Chemistry - An R&D Perspective
14:55 - 15:45 | Dr. Richard Fox, Scientific Director, Bristol Myers Squibb (BMS) | Process Mass Intensity (PMI) Prediction Tool
15:45 - 16:15 | Dr. John Wasylyk, Associate Scientific Director, Bristol Myers Squibb (BMS) | Analytical Method Greenness Score (AMGS) Calculator
16:15 - 16:45 | Industry & Academic Mentors for the Session | Closing Remarks & Acknowledgements
16:45 - 17:00 |  | Tea/Coffee Break, Visiting IGCW EXPO

Click here to Register for the Session: https://www.industrialgreenchem.com/igcw23-online-and-offline-registration/
TECHNICAL SESSION ON
SUSTAINABILITY AND GREEN CHEMISTRY METRICS

7th November 2023 | The Westin Mumbai Garden City

Expected Participants:
Chief Sustainability Officer, President-EHS, VP-EHS, GM-EHS, EHS/Sustainability Professionals

Objectives:
1. To understand global dynamics with regards to Sustainability Metrics and its relevance for Chemical Industry.
2. To learn basics of Circular Economy, Circular Transition Indicators (CTI), Life Cycle Assessment (LCA), SBTi, etc.
3. To explore how MSMs can integrate Sustainability Metrics.
4. To connect to potential solution providers offering diverse Sustainability services, products, digital tools, etc.

Session Mentors
Dr. Brajesh Kumar Dubey, Professor - Circular Engineering (Dept. of Civil Engg.) and Chairperson - School of Water Resources, IIT-Kharagpur
Dr. Ananda Sekar, Leader, LCA Global Centre of Excellence, SABIC

Timing | Speaker | Topic / Title of Presentation
--- | --- | ---
08:30 - 09:30 | Registration, Tea/Coffee, Networking, Visiting IGCW Expo
09:30 - 09:40 | Welcome by Session Mentors: Acknowledgement, Self-Introduction, Creating Context for the Session
09:40 - 10:15 | Mr. Vivek Adhia, Climate & Sustainability, Boston Consulting Group | Keynote: Perspectives from G20 and global action on climate and circular economy
10:15 - 10:45 | Mr. Mike Danielson, Technical Manager - Chemicals, Science Based Targets Initiatives (SBTi) | The Chemical Industry’s Climate Commitment: SBTi & CDP in Action
10:45 - 11:15 | Shweta Basu, Manager - Corporate Engagements & Partnerships, CDP | Ms. Ashwini Hinge, Associate Program Director - Climate Program, World Resources Institute (WRI)
11:15 - 12:00 | Muskaan Kapoor, Engagement Officer - Disclosures & SBTi, CDP | Introduction to Carbon Market Mechanism

Tea/Coffee Networking Break, Visiting IGCW Expo.

Panel Discussion: How are companies (including MSMs) preparing responsibly for growing needs of market linked to Climate Circularity and other Sustainability and ESG imperatives?

Moderator:
Mr. Ananda Sekar, Leader, LCA Global Centre of Excellence, SABIC

Panel Member:
Mr. Ramnath Vaidyanathan, AVP – Good & Green, Godrej Industries Limited and Associate Companies
Ms. Ashwini Hinge, Associate Program Director - Climate Program, World Resources Institute (WRI)

12:00 - 12:45 | Dr. Mrutunjay Chaubey, Global Vice President & Head Sustainability, UPL Ltd. | Ms. Rajesh Pumagur, Chief Manager - CEHS, Piramal Pharma Solutions
12:45 - 13:15 | Dr. Brajesh Kumar Dubey, Professor - Circular Engineering (Dept. of Civil Engg.) and Chairperson - School of Water Resources, IIT-Kharagpur | Life Cycle Assessment (LCA)

Lunch Break, Visiting IGCW Expo.

13:45 - 15:00 | Industry & Academic Mentors for the Session | Creating context for Solution Providers
15:00 - 15:05 | Ms. Shalini Maloo, Co-founder, Elsqr Solutions Pvt. Ltd. | Strategic Approach to Sustainability facilitated with digital solutions
15:05 - 15:35 | Ms. Arum Salot, Manager - Investor Services, GIST Impact | Assessing company performance beyond ESG through the lens of impact
15:35 - 16:05 | Mrs. Joti Palekar, Founder, STEP Pvt. Ltd. | Supporting MSMs to initiate their Sustainability Journey
16:05 - 16:25 | Dr. Nikhil Nitesh Kamble, Analyst LCA and Carbon Management, Climate & Conservation Consortium | Life Cycle Assessment, Carbon Footprints and CCC
16:25 - 16:55 | Mr. Sunil Kumar, Head, SIPL Pvt. Ltd. | Driving sustainability through SimaPro
16:55 - 17:15 | Click here to Register for the Session: https://www.industrialgreenchem.com/igcw23-online-and-offline-registration/
**TECHNICAL SESSION ON**
ENVIRONMENT, HEALTH & SAFETY - TOOLS & TECHNOLOGIES

**7th November 2023 | The Westin Mumbai Garden City**

**Expected Participants:**
Chief Sustainability Officer, Head-EHS, VP-EHS, GM-EHS, GM-Production, EHS Professionals, etc

**Objectives:**
- To introduce EHS Systems - Basics, Its Relevance, How to set-up, Frameworks.
- Discuss relevant topics like Sustainability Reporting Tools, Supply Chain Sustainability, Process & Plant Safety, etc
- Engage in discussion on Safety Leadership & Culture in an organization - Perspectives of large companies & MSMEs.
- To introduce tools in the domain of EHS and connect to potential solution providers in the market.

### Session Mentors
- **Prof. Anju Singh**, Professor Sustainability Management, National Institute of Industrial Engineering, IIM-Mumbai
- **Mr. Mahesh Chandak**, Head of HSE - South Asia and HSE Business Partner for Crop Science, Bayer

### Agenda

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<td>Welcome by Session Mentors: Acknowledgement, Self-Introduction, Creating Context for the Session</td>
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<tr>
<td>09:40 - 10:15</td>
<td>Dr. Pradip Panigrahi, Head - Corporate Sustainability, Larsen &amp; Toubro Ltd.</td>
<td>Sustainability Reporting Tools</td>
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<tr>
<td>10:15 - 10:45</td>
<td>Mr. Mahesh Chandak, Head of HSE - South Asia and HSE Business Partner for Crop Science, Bayer</td>
<td>Forward looking EHS Management Systems - The Journey from Good to Great</td>
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<td>10:45 - 11:30</td>
<td></td>
<td><strong>Tea/Coffee Networking Break, Visiting IGCW Expo.</strong></td>
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<tr>
<td>11:30 - 12:00</td>
<td>Mr. Deepak Naik, Corporate HSE &amp; Sustainability Head, Navin Fluorine International Ltd.</td>
<td>Supply Chain Sustainability</td>
</tr>
<tr>
<td>12:00 - 12:30</td>
<td>Mr. Vidyulya Ravi, Head - Process Safety, PI Industries Ltd.</td>
<td>Ensuring Process Safety: Harnessing the Power of Process Safety Information</td>
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<tr>
<td>12:30 - 13:15</td>
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<td><strong>Panel Discussion on Safety Leadership &amp; Culture</strong></td>
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<tr>
<td>13:15 - 14:30</td>
<td></td>
<td><strong>Lunch Break, Visiting IGCW Expo.</strong></td>
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<tr>
<td>14:30 - 15:00</td>
<td>Mr. Rahul Raman, Principal Engineer, Kaypear Consulting</td>
<td>Review of incidents between 2010 to 2022 for the chemical process industry</td>
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<tr>
<td>15:00 - 15:30</td>
<td>Mr. Chandan Tiwari, Director - Subscriber Development, Benchmark Gensuite</td>
<td>Advanced Tech Strategies for EHS Leaders</td>
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<tr>
<td>15:30 - 16:00</td>
<td>Mr. Sarvotam Pejavar, Promoter, Zecomy</td>
<td>Digital Platform for Waste Management</td>
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<tr>
<td>16:00 - 16:20</td>
<td>Mr. Avinash Bhusanumrah, Lead Technical Services &amp; Product Application Specialist for Zeeweed South Asia Region, Veolia Water Technologies &amp; Solutions</td>
<td>Techtalk on Veolia's Nanofiltration and Ultra High Pressure Membranes for Process applications and Optimization of ZLD</td>
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<tr>
<td>16:40 - 17:00</td>
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<td>Presentation - Solution Provider 3</td>
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<tr>
<td>17:00 - 17:10</td>
<td>Closing Remarks &amp; Acknowledgements by Session Mentors</td>
<td></td>
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<tr>
<td>17:10 - 18:00</td>
<td></td>
<td><strong>Tea/Coffee Break, Visiting IGCW Expo</strong></td>
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**Click here to Register for the Session:** [https://www.industrialgreenchem.com/igcw23-online-and-offline-registration/](https://www.industrialgreenchem.com/igcw23-online-and-offline-registration/)
# Technical Session on Renewable Feedstocks for Decarbonization & Sustainability

**Expected Participants:**
Chief Sustainability Officer, VP or GM - Technology, Senior Scientists, Supply Chain & Sustainability Professionals

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<tr>
<td>09:45 - 10:15</td>
<td>Dr. John Warner, Co-founder, Beyond Benign</td>
<td>Keynote: Innovation with Biomaterials: Nature's Mechanisms in the Human Built World</td>
</tr>
<tr>
<td>10:15 - 10:45</td>
<td>Mr. Sandeep Chaturvedi, Chairman, Biodiesel Association of India</td>
<td>Future of Renewable Feedstocks in India, changing Government policies &amp; prospects</td>
</tr>
<tr>
<td>10:45 - 11:15</td>
<td>Dr. A. J. Varma, Former Chairman, Department of Polymer Science &amp; Engineering, CSIR-National Chemical Laboratory</td>
<td>Multiple products and zero waste stream from the processing of lignocellulose biomass: Key to Sustainability &amp; Economics</td>
</tr>
<tr>
<td>11:15 - 12:00</td>
<td>Tea/Coffee Networking Break, Visiting IGCW Expo.</td>
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<tr>
<td>12:00 - 12:30</td>
<td>Dr. Sasisanker Padmanabhan, Sr. Principal Scientist, Praj Industries</td>
<td>Utilization of all Carbon Components in Processing of Agri-based Feedstock: Moving Towards Second Generation Biorefineries</td>
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<tr>
<td>12:30 - 13:00</td>
<td>Dr. Avatar Matharu, Senior Lecturer, Deputy Director, Green Chemistry Centre of Excellence (GCCE)</td>
<td>Chemicals from unavoidable food supply chain wastes</td>
</tr>
<tr>
<td>13:00 - 13:30</td>
<td>Dr. Prashant Dhakephalkar, Director, Agharkar Research Institute (ARI)</td>
<td>Platform molecules &amp; materials from Biomass</td>
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<tr>
<td>13:30 - 15:00</td>
<td>Lunch Break, Visiting IGCW Expo.</td>
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<tr>
<td>15:00 - 15:30</td>
<td>Dr. Preeti Jain, Global Director (Policy, Chemicals &amp; Carbon Solutions), LanzaTech</td>
<td>Carbon Recycling for Sustainable Fuels &amp; Chemicals</td>
</tr>
<tr>
<td>16:00 - 16:30</td>
<td>Dr. Prakash D. Vaidya, Professor, Dept. of Chemical Engineering, Institute of Chemical Technology (ICT)</td>
<td>Improved hydrogen production technologies based on reforming of biofeeds</td>
</tr>
<tr>
<td>16:30 - 16:50</td>
<td>Mr. Raj Tanna, Managing Director, Schutzen Care Pvt. Ltd.</td>
<td>Valorising Waste to produce Biobased &amp; Biodegradable value added products</td>
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<tr>
<td>16:50 - 17:10</td>
<td>Dr. K. I. Suresh, Chief Scientist, Material Science &amp; Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST)</td>
<td>Aqueous Polyurethane Dispersions Modified using Renewable Cardanol Polyols: Opportunities and Challenges</td>
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<tr>
<td>17:10 - 17:15</td>
<td>Closing Remarks &amp; Acknowledgements by Conference Mentors</td>
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CONFERENCE ON
“FACILITATING INDUSTRIAL SUSTAINABILITY & POLLUTION PREVENTION THROUGH GREEN CHEMISTRY”
7th November 2023 | The Westin Mumbai Garden City

Expected Participants:
Govt. & Regulatory Bodies working in the domain of Environment (E.g. CPCB, State PCBs, MIDC, NEERI, Etc)

Objectives:
- To facilitate Capacity Building of State Pollution Control Board Officers & other Government & Regulatory Bodies.
- To introduce concepts Resource Efficiency & Circular Economy & how it contributes to Pollution Prevention.
- To facilitate State PCBs “learning from each other’s initiatives”
- To connect to 30 Environment Solution Providers exhibiting at IGCW-Expo.
- To discuss possibilities with collaboration with Industry and Industrial Associations to facilitate Prevention of Pollution.

Session Mentors:
Dr. Ajay Deshpande, Adjunct Professor, Centre for Policy Studies, IIT-Bombay
Dr. Atul Vaidya, Director, CSIR-NEERI

Timing | Speaker | Topic / Title of Presentation
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08:30 - 09:30 | Welcome by Mentors: Acknowledgement, Self-Introduction, Creating Context for the Conference
09:30 - 09:45 | Prof. Paul Anastas, Director, Centre for Green Chemistry & Engineering at Yale, USA | Keynote: Balancing act of Regulator & Facilitator - Learnings from US EPA
09:45 - 10:30 | Mr. Devang Thaker, Member Secretary, Gujarat Pollution Control Board (GPCB) | Gujarat’s Journey towards framing state-level Circular Economy Policy
10:30 - 11:00 | Tea/Coffee Networking Break, Visiting IGCW Expo.
11:00 - 12:00 |
12:00 - 12:35 | Dr. Prasad Modak, MD, Environment Management Centre & Director, Ekonnect Knowledge Foundation | Can we regulate industrial pollution through standards based on resource efficiency?
12:35 - 13:15 | Dr. Atul Vaidya, Director, CSIR-NEERI | Hazardous Waste Management Rules
13:15 - 13:25 | Dr. Pranav Tripathi, Deputy Director - Sustainability, Indian Chemical Council (ICC) | Responsible Care: A Path to Improve Safety and Sustainability in Chemical Industry
13:45 - 15:00 |
15:00 - 15:30 | Dr. Rahul Nabar, Associate Professor, Chemical Engineering Dept., IIT-Bombay | An overview of recent Global regulatory and policy developments in Sustainability and Environmental protection
15:30 - 16:30 | Mr. Vinod Babu, Division Head & Director, Waste Management, Central Pollution Control Board (CPCB) (Invited) | 
16:30 - 17:15 | Sharing of Innovative Initiatives by senior representatives of State Pollution Control Boards (By Invitation) | 
17:15 - 17:30 | Closing Remarks & Acknowledgements by Conference Mentors | 
17:00 - 18:00 | Tea/Coffee Break, Visiting IGCW Expo

Panel Discussion: Management of Environmental Pollution of MSME based on Clustering & Industrial Ecology Approach

Moderator:
Mr. Mahesh Patil, Chairman, Goa State Pollution Control Board (GSPCB) and Expert Member, GCZMA

MoEF Representative
Mr. Vinod Babu, Division Head & Director, Waste Management, Central Pollution Control Board (CPCB) (Invited)
Mr. Rajen K. Mariwala, President, Indian Chemical Council (ICC), (Invited)

Dr. Avinash Dhakane, IAS, Member Secretary, Maharashtra Pollution Control Board (MPCB) TBC
Dr. Bharat Jain, Member Secretary, Gujarat Cleaner Production Center (GCPC)

Dr. Vijay Singh, Former Chief Environmental Engineer, Rajasthan State Pollution Control Board (RSPCB)
Goa State Pollution Control Board (GSPCB)
Andhra Pradesh Pollution Control Board (APPCB)
Gujarat Pollution Control Board (GPCB)
Telangana State Pollution Control Board (TSPCB)
Tamil Nadu State Pollution Control Board (TNSPCB)

Click here to Register for the Session: [https://www.industrialgreenchem.com/igcw23-online-and-offline-registration/](https://www.industrialgreenchem.com/igcw23-online-and-offline-registration/)
### TECHNICAL SESSION ON CHEMO-CATALYSIS FOR SUSTAINABILITY

**8th November 2023 | The Westin Mumbai Garden City**

**Expected Participants:**
President: R&D, VP-R&D, GM: R&D, GM-Process Development, Senior Scientists-Process Research

### Objectives:
- To learn innovative methodologies to conduct synthetic organic chemistry in water.
- To explore new frontiers of Catalysis like single atom, micellar catalysis, nano catalysts, etc.
- Petrochemical Industry has pioneered Catalytic Processes - Pharma & Fine Chemicals Industry can learn from them.
- To connect with Solution Providers in the domain of sustainable metal catalysis, precious metal catalysts recovery, etc.

### Session Mentors

- **Prof. Lakshmi Kantam, Dr. B. P. Godrej**
  Distinguished Professor, Institute of Chemical Technology (ICT)
- **Dr. Raksh VJ Jasra, Sr. Vice President - R&D, Reliance Industries Ltd.**

### Timing & Speaker Details

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<td>09:45 - 10:15</td>
<td>Prof. Bruce H. Lipshutz, Distinguished Professor - Dept. of Chemistry, University of California, Santa Barbara</td>
<td>Keynote: Transitioning Synthetic Organic Chemistry to Water; It’s Our Future!</td>
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<tr>
<td>10:15 - 10:45</td>
<td>Dr. Bharat Newalkar, Chief General Manager (R&amp;D), Bharat Petroleum Corporation Ltd.</td>
<td>Catalysts &amp; Catalytic Processes – What Pharma, Speciality Fine Chemicals can learn from Petroleum/ Petrochemical Industry?</td>
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<tr>
<td>10:45 - 11:15</td>
<td>Prof. Lakshmi Kantam, Dr. B. P. Godrej Distinguished Professor of Green Chemistry &amp; Sustainability Enng, Institute of Chemical Technology (ICT) (TBC)</td>
<td>Successful commercialization of Catalytic Processes.</td>
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<tr>
<td>11:15 - 12:00</td>
<td><strong>Tea/Coffee Networking Break, Visiting IGCW-EXPO</strong></td>
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<td>12:00 - 12:30</td>
<td>Mr. Jayesh Ashar, Director - Operations, Vinati Organics Ltd.</td>
<td>Industrial Case Study on successful commercialization of Catalytic Processes</td>
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<td>12:30 - 13:00</td>
<td>Dr. Vasudev Rao Gandhi, Group Leader - Process Chemistry &amp; Technology Transfer, UPL Ltd.</td>
<td>Catalysts &amp; Catalytic Processes being explored by UPL for Economical &amp; Environmental Competitiveness</td>
</tr>
<tr>
<td>13:00 - 13:30</td>
<td>Dr. Sachin Rawalekar, Assistant General Manager - R&amp;D, Hindustan Platinum Ltd.</td>
<td>Efficient, recyclable, and re-processable precious group metal-based catalyst for organic transformations</td>
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<tr>
<td>13:30 - 14:45</td>
<td><strong>Lunch Break, Visiting IGCW-EXPO</strong></td>
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<tr>
<td>14:45 - 15:10</td>
<td>Prof. Manoj Gaware, Associate Professor, Department of Industrial and Engineering Chemistry, Institute of Chemical Technology, Mumbai-Marathwada Campus</td>
<td>Single-Atom and NanoCatalysts: A Sustainable and Cost-Effective Pathway for the Organic Transformations</td>
</tr>
<tr>
<td>15:10 - 15:35</td>
<td>Prof. Venkata Krishan, Professor, School of Chemical Sciences, IIT-Mandi</td>
<td>Nickel Phosphide Anchored on Carbonaceous Supports for Transfer Hydrogenation of Nitroarenes and Quinolines under Base-free, Molecular Hydrogen-free Conditions</td>
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<tr>
<td>15:35 - 16:00</td>
<td>Dr. Manish Mishra, Professor, Dept. of Chemistry, Sardar Patel University</td>
<td>Micellar Catalysis for Sustainable Chemical Synthesis</td>
</tr>
<tr>
<td>16:00 - 16:25</td>
<td>Dr. Surendra Singh, Assistant Professor, Dept. of Chemistry, Delhi University</td>
<td>Chiral Mn(II) Salen Complexes as Recyclable Homogenous Catalysts for Organic Transformations</td>
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<tr>
<td>16:25 - 16:45</td>
<td>Dr. Anil Kumar Sinha, Chief Scientist &amp; Head - Biofuels, CSIR-Indian Institute of Petroleum (IIP)</td>
<td>Catalytic Process for Liquid Sustainable Aviation and Automotive Fuels from lipids</td>
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<tr>
<td>16:45 - 17:05</td>
<td>Mr. Gunvant Patel, MD, Rhodium Master</td>
<td>Recovery of Homogeneous &amp; Heterogeneous Precious Metal Catalysts</td>
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<tr>
<td>17:05 - 17:25</td>
<td>Ms. Ashwini Kothe, R&amp;D Head, Newreka GreenSynth Technologies Pvt. Ltd.</td>
<td>Sustainable Metal Catalysis for Nitro/Nitroso/Dinitro Group Reduction</td>
</tr>
<tr>
<td>17:25 - 17:30</td>
<td>Industry &amp; Academic Mentors for the Session</td>
<td>Closing Remarks &amp; Acknowledgements</td>
</tr>
<tr>
<td>17:30 - 18:00</td>
<td><strong>Tea/Coffee Break, Visiting IGCW-EXPO</strong></td>
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**TECHNICAL SESSION ON**
**BIOCATALYSIS: A POWERFUL TOOL FOR GREEN & SUSTAINABLE CHEMISTRY**

8th November 2023 | The Westin Mumbai Garden City

**Expected Participants:**
President-R&D, VP-R&D, GM-R&D, GM-Process Development, Senior Scientists

**Objectives:**
- To introduce the basics and fundamentals of Bio-Catalysts & Bio-Catalytic Processes.
- To explore the diversity of existing and potential applications of Bio-Catalysis.
- To share successful industrial case studies and challenges faced during development & commercialization.
- To connect Industry Participants to experts and solution providers offering Bio-Catalytic solutions.

**Session Mentors:**
- Prof. Santosh Noronha, Assistant Professor, Dept. of Chemical Engineering, IIT-Bombay
- Dr. Shamlan Reshamwala, Assistant Professor, Center of Energy Biosciences, ICT
- Dr. Mofazzal Husain, Associate Director, Bio R&D, Lupin Ltd.

<table>
<thead>
<tr>
<th>Timing</th>
<th>Speaker</th>
<th>Topic / Title of Presentation</th>
</tr>
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<tbody>
<tr>
<td>08:30 - 09:30</td>
<td><strong>Registration, Tea/Coffee, Networking, Visiting IGCW Expo</strong></td>
<td></td>
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<tr>
<td>09:30 - 09:40</td>
<td>Welcome by Session Mentors: Acknowledgement, Self-introduction &amp; sharing work, Creating Context for the Session</td>
<td></td>
</tr>
<tr>
<td>09:40 - 10:10</td>
<td>Dr. Shamlan Reshamwala, Assistant Professor, Center of Energy Biosciences, ICT</td>
<td>An Introduction to Bio-Catalysis</td>
</tr>
<tr>
<td>10:10 - 10:40</td>
<td>Dr. Shams Yazdani, Group Leader - Microbial Engineering, International Centre for Genetic Engineering &amp; Biotechnology (ICGEB)</td>
<td>Development of Engineered Microbes and Enzymes to Convert Agricultural Residues into Valuable Products</td>
</tr>
<tr>
<td>10:40 - 11:10</td>
<td>Mr. Nagaraj Maddur, Principal Scientist, Advanced Enzymes Technologies Ltd.</td>
<td>Sustainable Industrial Green Chemistry applications using Biocatalytic Enzymes</td>
</tr>
<tr>
<td>11:10 - 12:00</td>
<td><strong>Tea/Coffee Networking Break, Visiting IGCW Expo.</strong></td>
<td></td>
</tr>
<tr>
<td>12:00 - 12:30</td>
<td>Dr. Amulya Panda, Associate Director, Panacea Biotec</td>
<td>Bioacatalysis using Inclusion Bodies</td>
</tr>
<tr>
<td>12:30 - 13:00</td>
<td>Dr. Somashekhara, Senior Manager (Bio-Catalysis), Metrochem API Pvt. Ltd.</td>
<td>Gluconobacter oxydans as a Catalyst in API synthesis</td>
</tr>
<tr>
<td>13:00 - 13:30</td>
<td>Dr. Saravanan, CSO, Shasunmed Life-Sciences Pvt. Ltd.</td>
<td>Case Studies on Industrial perspective: Bio-reduction of Aromatic Ketones by Fungi</td>
</tr>
<tr>
<td>13:30 - 14:15</td>
<td><strong>Lunch Break, Visiting IGCW Expo.</strong></td>
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</tr>
<tr>
<td>14:15 - 14:45</td>
<td>Dr. Pravin Kumar, Founder, Chairman &amp; CSO, KCat Enzymatic Pvt. Ltd.</td>
<td>7D-GRID-AI Technology: A Technology that translates Enzymes from a Computer to Business with limited lab experiments</td>
</tr>
<tr>
<td>14:45 - 15:15</td>
<td>Dr. Manpeet Singh, CBDO, Ikessa Biologics</td>
<td>Unlocking the power of Bio-Catalysis: Revolutionizing Chemical Process and Green Chemistry</td>
</tr>
<tr>
<td>15:15 - 16:15</td>
<td><strong>Panel Discussion (All Speakers) on Bio-Catalysis: Trends and Challenges</strong></td>
<td></td>
</tr>
<tr>
<td>16:15 - 16:30</td>
<td>Industry &amp; Academic Mentors for the Session</td>
<td>Closing Remarks &amp; Acknowledgements</td>
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TECHNICAL SESSION ON
GREEN ENGINEERING FOR PROCESS SAFETY
& BENIGN ENVIRONMENT

8th November 2023 | The Westin Mumbai Garden City

Expected Participants:
CTO, Director-Technical, President-R&D, GM-Tech Transfer, GM-Production, Senior Scientists & Engineers

Objectives:
- To introduce the 12 Principles of Green Engineering and how it impacts Safety and Environment.
- To discuss potential of Flow Chemistry, new advancements and challenges in implementation.
- To explore new frontiers of synthesis like Mechano-Chemistry.
- To connect with diverse solution providers in the domain of Green Engineering.

Session Mentors
Dr. Amol Kulkarni, Scientist, Chemical Engineering & Process Development, CSIR-NCL
Dr. Sandeep Jain, Sr. Director - Special Technologies, PI Industries Ltd.
Dr. Suhas Jawlekar, Associate Director - Process Engineering, Polymorph development & New technology, Dr. Reddy’s Laboratories Ltd.

Timing | Speaker | 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 - 10:15 | Prof. Paul Anastas, Director, Centre for Green Chemistry & Engineering at Yale | Keynote: Introducing the 12 Principles of Green Engineering
10:15 - 10:45 | Mr. Ninad Loke, Tech Lead - Process Engineering, Dr. Reddy’s Labs Ltd. | Enabling technologies in API process development – Green Chemistry metrics
11:15 - 12:00 | Tea/Coffee Networking Break, Visiting IGCW Expo. | 

Panel Discussion on Flow Chemistry

Moderator:
Dr. Suhas Jawlekar, Associate Director - Process Engineering, Polymorph Development & New technology, Dr. Reddy’s Laboratories Ltd.

Panel Members:
- Dr. Subhash Dhar, Head of Plant Technology, Deepak Nitrite Ltd.
- Dr. Chandrakant Gadipelly, Head of Flow Reactors, Amar Equipment Pvt. Ltd.
- Mr. Bhavik Shah, Lead - Process Engineering & Flow Chemistry, UPL Ltd.
- Mr. Krut Patel, Director, Shimmer Chemicals Pvt. Ltd.

12:00 - 12:45 | | 
12:45 - 13:15 | | Right first-time GREEN scale up using MixelT
13:15 - 13:45 | | Green engineering & process sustainability through non-isothermal calorimetry studies
13:45 - 15:00 | Lunch Break, Visiting IGCW Expo. | 
15:00 - 15:05 | Industry & Academic Mentors for the Session | Creating context for Solution Providers
15:05 - 15:25 | Mr. Ankit Vyas, CMO, Standard Engineers | Green Engineered Mixing & Agitation Solutions
15:25 - 15:45 | Mr. Chandrakant Sethia, Manager AFR India, Corning Reactor Technologies | Continuous manufacturing through Inherently Safer & Sustainable Technology
15:45 - 16:05 | Dr. Makrand Pimplapure, MD, MakSpeed Technologies Pvt. Ltd. | "MakSpeed Flow Chemistry Systems: A Case for Green Chemistry Advancements"
16:05 - 16:25 | Mr. Abhijeet Kulkarni, MD & CEO, Proburgeon Pvt. Ltd. | Flow Technology for Efficient Processes
16:25 - 16:45 | Mr. Vilobh Shete, Chemical Research & Process Engineer, HEL Group | Ventsizing for Integration of Process Safety & Green Chemistry
16:45 - 17:00 | Closing Remarks & Acknowledgements by Session Mentors | 
17:00 - 18:00 | Tea/Coffee Break, Visiting IGCW Expo | 

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Click here to Register for the Session: https://www.industrialgreenchem.com/igcw23-online-and-offline-registration/
# TECHNICAL SESSION ON
WASTE VALORIZATION & INDUSTRIAL ECOLOGY

8th November 2023    The Westin Mumbai Garden City

**Expected Participants:**
Chief Sustainability Officer, President/VP-EHS, GM-EHS, Production & EHS Professionals, CETPs, Industrial Corporations, etc.

**Session Mentors:**
Ms. Jyoti Palekar, Co-founder & Managing Director, STEP Pvt. Ltd.
Mr. Ulhas Parlikar, Global Consultant - Waste Management, Circular Economy, Policy Advocacy & Co-processing

**Objectives:**
- To explore Waste Valorization and Industrial Symbiosis as powerful tools to achieve Circular Economy.
- To learn from successful case studies of industries/industry Clusters on innovative methods to manage waste.
- To connect with Solution Providers offering diverse solutions for recovery or processing of wastes from Chemical Industry.
- To expand awareness about alternatives to recycle e-waste, plastic & packaging wastes, etc.

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<thead>
<tr>
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<td>09:30 - 09:40</td>
<td>Welcome by Session Mentors: Acknowledgement, Self-introduction, Creating Context for the Session</td>
<td></td>
</tr>
<tr>
<td>09:40 - 10:10</td>
<td>Dr. Prasad Modak, MD, Environment Management Centre (EMC)</td>
<td><strong>Keynote:</strong> Waste Valorization &amp; Industrial Ecology</td>
</tr>
<tr>
<td>10:10 - 10:40</td>
<td>Ms. P. Bineesha, Executive Director, International Institute of Waste Management (IIWMM)</td>
<td>Industrial Ecology / Industrial Eco-parks</td>
</tr>
<tr>
<td>10:40 - 11:10</td>
<td>Dr. Bharat Jain, Member Secretary, Gujarat Cleaner Production Centre (GCPC)</td>
<td>Novel Spent Acid &amp; other case studies of Waste Valorisation &amp; Industrial Ecology in Gujarat</td>
</tr>
<tr>
<td>11:10 - 12:00</td>
<td>Tea/Coffee Networking Break, Visiting IGCW Expo.</td>
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<tr>
<td>12:00 - 12:30</td>
<td>Dr. A. Gokulram, Manager Operations and Applied Research, Anant School for Climate Action</td>
<td>Industrial symbiosis in India - an exploration of an Indian industrial estate</td>
</tr>
<tr>
<td>12:30 - 13:00</td>
<td>Dr. Avatar Matharu, Dy. Director, Green Chemistry Centre of Excellence, University of York</td>
<td>Converting food &amp; other wastes to valuable chemicals &amp; resources</td>
</tr>
<tr>
<td>13:00 - 13:30</td>
<td>Mr. Kannan Vairavan, Senior Counsellor, CII - Sohrabji Godrej Green Business Centre</td>
<td>Alternative fuel and raw material mapping for cement kiln co-processing</td>
</tr>
<tr>
<td>13:30 - 14:45</td>
<td>Lunch Break, Visiting IGCW Expo.</td>
<td></td>
</tr>
<tr>
<td>14:45 - 15:15</td>
<td>Mr. Ashish Kumar Mishra, Regional Operations Head - South East, Geoclean, Adani Cement</td>
<td>A new paradigm for waste management: Geoclean’s expertise</td>
</tr>
<tr>
<td>15:15 - 15:35</td>
<td>Vikram Dhumal, Business Head, Geist Research - Division of Z-Tech India Pvt. Ltd.</td>
<td>Achieving Sustainability By Waste Valorization</td>
</tr>
<tr>
<td>16:15 - 16:35</td>
<td>Mr. Aniket Gavas, BDM &amp; Sustainability, The Shakti Plastics Industries</td>
<td>Recycling of different kinds of plastics</td>
</tr>
<tr>
<td>16:35 - 16:55</td>
<td>Mr. Priyesh Bhatti, CEO, Green Gene Enviro Protection &amp; Infrastructure Pvt. Ltd. (GEPIL)</td>
<td>Waste aggregation and pre-processing</td>
</tr>
<tr>
<td>16:55 - 17:15</td>
<td>Dr. S. Adimuthy, Sr. Principal Scientist, Natural Products &amp; Green Chemistry Division, CSIR-Central Salt &amp; Marine Chemicals Research Institute (CSMCRI)</td>
<td>Recovery of value added products from the industrial waste effluents and green processes</td>
</tr>
<tr>
<td>17:15 - 17:20</td>
<td>Closing Remarks &amp; Acknowledgements by Session Mentors</td>
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<td>17:20 - 18:00</td>
<td>Tea/Coffee Break, Visiting IGCW Expo.</td>
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TECHNICAL SESSION ON
SOFTWARE & ANALYTICAL TOOLS FOR
GREEN & SUSTAINABLE CHEMISTRY

8th November 2023 | The Westin Mumbai Garden City

Expected Participants:
Senior Scientists (President, VP, GM, Manager, etc) from R&D, Analytical, Quality Control, Process Development

Objectives:
- To learn how large Pharma & Fine Chemical companies drive Green Chemistry using software & analytical tools
- To explore Computational Chemistry, Artificial Intelligence & Machine Learning as tools for Sustainable Chemistry.
- To introduce innovative software tools like Synthia, SciFinder-N, ASKCO, etc that facilitate Process Research.
- To connect to solution providers offering innovative software & analytical tools that enable Green Chemistry.

Session Mentors
Dr. Rakeshwar Bandichhor, Head, Chemistry - API - Process R&D, Dr. Reddys Ltd.
Dr. Kaustav Chakraborty, Team Leader, Laboratory of Advanced Polymer & Organic Chemistry, Solvay Specialty India Pvt. Ltd.

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<tr>
<td>09:30 - 09:40</td>
<td>Dr. Rakeshwar Bandichhor, VP &amp; Head of Chemistry - API R&amp;D, Dr. Reddys Laboratories and Vice-Chair, ACS-India Chapter</td>
<td>Software &amp; Analytical Tools at Dr. Reddy's to drive innovative Green Chemistry Solutions in Process Research</td>
</tr>
<tr>
<td>09:40 - 10:10</td>
<td>Dr. Gautam Samanta, Director, AGS Pharma Consulting</td>
<td>Design of Experiment (DoE)/Process Analytical Technologies (PAT) as a Complementary tool for Green and Sustainable Chemistry</td>
</tr>
<tr>
<td>10:10 - 10:45</td>
<td>Mr. Avinash Shinde, General Manager (SHE &amp; Instrumentation) Global, Galaxy Surfactants Ltd.</td>
<td>Process Automation to drive safety and lower environmental footprint</td>
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<tr>
<td>10:45 - 11:15</td>
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<td>11:00 - 12:00</td>
<td>Tea/Coffee Networking Break, Visiting IGCW Expo.</td>
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<tr>
<td>12:00 - 12:35</td>
<td>Mrs. Sreejitha Thimphu, Manager Phytochemistry, Advanced Research, Lorean India Pvt. Ltd.</td>
<td>Reverse Iontophoresis-A green analytical tool for quantification of metabolites from botanicals</td>
</tr>
<tr>
<td>12:35 - 13:10</td>
<td>Mr. K. K. Bhagchandani, Chief Business Officer, Aqxepts Tech Systems Pvt. Ltd.</td>
<td>Enhancing efficiency of Chemistry research with informed decision-making and utilizing Artificial Intelligence/Machine Learning</td>
</tr>
<tr>
<td>13:10 - 13:40</td>
<td>Mr. Sachin Gupta, VP – Digital Innovation &amp; Transformation and Sales, ITRadiant Solutions Inc.</td>
<td>Achieve both environmental and financial sustainability goals leveraging business software with embedded Artificial Intelligence</td>
</tr>
<tr>
<td>13:40 - 15:00</td>
<td>Lunch Break, Visiting IGCW Expo.</td>
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</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Mr. Kapil Aggarwal, Director - India, South Asia &amp; GCC, Revity Signals Software Inc</td>
<td>Empowering Sustainability: The Role of Digitization in Green Chemistry R&amp;D</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>Dr. Ewa Gajewska, Head of Product Management - SYNTHIA™ R&amp;D, Merck Group</td>
<td>Introduction to SYNTHIA™ Retrosynthesis Software Tool</td>
</tr>
<tr>
<td>16:00 - 16:30</td>
<td>Dr. Nabin Sarkar, Application Specialist, American Chemical Society (ACS)</td>
<td>SciFinder® - A powerful tool for process research</td>
</tr>
<tr>
<td>16:30 - 17:00</td>
<td>Prof. Connor Coley, Assistant Professor, Dept. of Chemical Engineering, Dept. of Electrical Engineering &amp; Computer Sciences, Massachusetts Institute of Technology (MIT)</td>
<td>ASKCO - Software tool for retrosynthesis and prediction of feasible synthetic routes</td>
</tr>
<tr>
<td>17:00 - 17:10</td>
<td>Closing Remarks &amp; Acknowledgements by Conference Mentors</td>
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THE 7TH INDUSTRIAL GREEN CHEMISTRY WORLD (IGCW-2023)
CONVENTION & ECOSYSTEM
6th - 8th November 2023
The Westin Mumbai Garden City

EXPO FLOOR PLAN

Stall No. | Exhibitor
---|---
1 | MakSpeed Technologies Pvt. Ltd.
2 | 
3 | 
4 & 5 | LabGuard India Pvt Ltd
6 | HEL India Pvt. Ltd.
7 | 
8 & 9 | ICT Mumbai
10 & 11 | Newreka Green Synth Techchnologies Pvt. Ltd.
12 | Climate & Conservation Consortium
13 | Rhodium Master
14 | Environalgae
15 | Geist Research Pvt. Ltd.
16 & 17 | ISC3
16 & 17 | REVY Environmental Solutions Pvt. Ltd.
16 & 17 | Ashaya Recyclers Pvt. Ltd.
16 & 17 | Schutzen Care Pvt. Ltd.
16 & 17 | Bunko Junko
16 & 17 | We The Recycle company
18 & 19 | Pure Water & Veolia
20 | Standard Engineers
21 & 24 | Revity Signals Software Inc
22 | Kcat Enzymetic Pvt. Ltd.
23 | Proburgeon Pvt. Ltd.
25 | Clean Chem Laboratoris LLP
26 | Advanced Enzymes Technologies Pvt. Ltd.
27 | Excel Industries Ltd.
28 | Corning
29 & 30 | CSIR Institute
31 & 32 | CSIR Institute

Contact info: prakash.dussa@industrialgreenchem.com | Mob: 88793 35418 | www.IndustrialGreenChem.com
Participation Capacities

Contribute as Expert, Mentor, Speaker
Submit abstract for case-study presentation

Get your GC&E initiatives globally recognised
Submit your success case-study for IGCW 2023 Awards

Convey your company’s commitment and leadership in GC&E implementation by partnership with the IGCW-2023 convention
Contribute as a sponsor & leverage from branding opportunities

Showcase your GC&E based Technology/Product/Service solutions
Participate in IGCW 2023 Expo

Expand your technical understanding of the subject, learn from industry peers, align your company’s sustainability goals with GC&E implementation strategies
Participate as a delegate

To know more about any of the above Partnership/Participation opportunities, write to
krishna.padia@industrialgreenchem.com
OR
connect@industrialgreenchem.com

Participation Contribution in INR

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<th>Academia</th>
<th>Students</th>
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<tr>
<td><strong>Sustainability Partner:</strong> 10 Lacs</td>
<td><strong>IGCW-2023 Awards Partner:</strong> 8 Lacs</td>
<td><strong>Green Chemistry / Green Engineering Partner:</strong> 7.5 Lacs</td>
<td><strong>Technical Session Partner:</strong> 5 Lacs</td>
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For details write to
krishna.padia@industrialgreenchem.com

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<tr>
<td><strong>Premium Booth (4x2 SqM)</strong> : 2 Lacs + Taxes</td>
<td><strong>Standard Booth (2x2 SqM)</strong> : 1.25 Lacs + Taxes</td>
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<tr>
<td>Technical Session Day 1, 7th Nov.</td>
<td>₹ 12,500 + Taxes</td>
<td>₹ 9,375 + Taxes</td>
<td>₹ 6,250 + Taxes</td>
</tr>
<tr>
<td>Technical Session Day 2, 8th Nov.</td>
<td>₹ 12,500 + Taxes</td>
<td>₹ 9,375 + Taxes</td>
<td>₹ 6,250 + Taxes</td>
</tr>
<tr>
<td>Full Convention (7th &amp; 8th including Awards Evening on 6th)</td>
<td>₹ 25,000 + Taxes</td>
<td>₹ 18,750 + Taxes</td>
<td>₹ 12,500 + Taxes</td>
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INDUSTRIAL GREEN CHEMISTRY, A NEW VISION FOR
ONE EARTH, ONE FUTURE

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plus.google.com/+Industrialgreenchem/posts

Twitter
1230 + network

IGCW website
Yearly footfall
8000+ ppl.

Facebook
200 network

LinkedIn
8500+

network

IGCW Reach-out as on 10th July 2023

Organiser:

Green ChemisTree Foundation
C/o Newreka GreenSynth™ Technologies Pvt. Ltd.
405, Mastermind IV, Nr. Royal Palms, Aarey Colony,
Goregaon (East), Mumbai - 400 065, India.
Tel: +91 22 2879 1275 / 1835
Fax: +91 22 2879 4790
E-mail: connect@greenchemistree.co.in
Url: www.greenchemistree.co.in
www.IndustrialGreenChem.com