



Exhibition Proposal

7th Industrial Green Chemistry World (IGCW-2023) EXPO

6th – 8th November, 2023, Mumbai.

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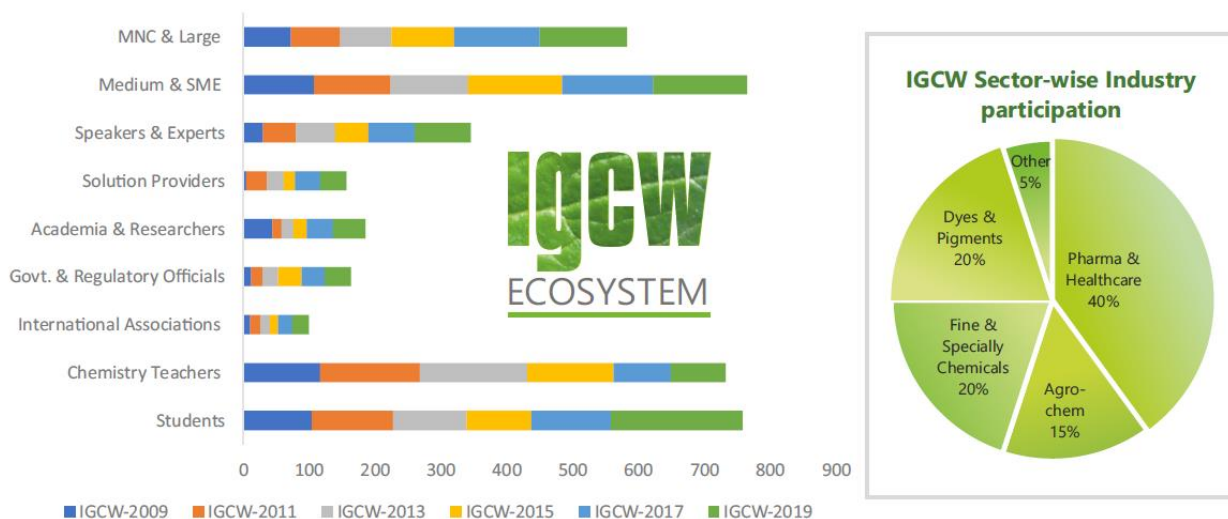
Executive Summary

This proposal aims to invite your esteemed organisation to support and partner with the Green ChemisTree Foundation in organising India's flagship initiative of the **Industrial Green Chemistry World (IGCW-2023) Convention & Ecosystem**, to be held on 6th to 8th November 2023 in at the Victor Menezes Convention Center, IIT-Bombay.

Since its launch in 2009, the IGCW ecosystem is expanded both qualitatively as well as quantitatively over the years. Apart from increasing number of participants from Industry, Academia, Research institutes and Govt. bodies (refer graph titled IGCW Ecosystem since 2009); more than 100 global leaders from the green chemistry community (Academia & Industry) has contributed as Speakers and experts. There has been an increase in number of focused solution providers (from Industry and Research Institutes globally) showcasing their GC&E relevant technologies at the IGCW EXPO; and most importantly there has been a remarkable increase in number and quality of case-studies received over the last five IGCW Conventions for the IGCW Green Chemistry Awards.

All of these serve as indicators demonstrating how the IGCW Convention & Ecosystem is emerging as a robust platform for engaging diverse stakeholders to come together to collectively work towards accelerating the implementation of green chemistry practices in India.

IGCW Ecosystem since 2009



Various Government bodies too have realized the importance of this subject for driving sustainable growth of the Industry, and have now initiated focused interactions to create a road-map for accelerating the implementation of GC&E in India.

All of the above emphatically indicates that India is witnessing a paradigm shift in its level of adoption and implementation of Green Chemistry and Green Engineering based practices; and that our consistent efforts in this direction are poised to create India an Asian leader in Green Chemistry based practices by 2025.

About- Green ChemisTree Foundation

Green ChemisTree Foundation (GCF) is a not-for-profit organization, established with the vision to serve the Indian Chemical Industry and the chemical community at-large, in its Green Chemistry and Green Engineering (GC&E) pursuits for ensuring environmental conservation and industrial sustainability.

Green ChemisTree Foundation is the founder and organiser of India's first and largest Industrial platform titled "**Industrial Green Chemistry World (IGCW)**", an international Convention being held in India every two years since 2009; and have declared its commitment to facilitate the IGCW Convention series until 2025.

Background, Objectives & Structure of the proposed event

Event Title

7th Industrial Green Chemistry World – Convention & Ecosystem (IGCW 2023)

Date & Venue

6th – 8th November 2023 at The Westin Mumbai Garden City, India

7th IGCW-2023 Convention & Ecosystem Objectives

- 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

IGCW 2023 Ecosystem (expected audience)

The IGCW Ecosystem is a unique platform which by design, brings together diverse stakeholders of Chemical Industry. Apart from senior decision makers from the Industry (from Management, R&D, R&I Plants, Operations); the IGCW Convention is also invites active participation of GC&E experts and solution providers from across the World. Below illustrations will provide you an at-a-glance understanding of the target sectors and overall distribution of various participants attending the Convention over the two-day Convention.

The **7th IGCW-2023 Convention** with its various dimensions will incorporate participation from over **300 Chemical companies (500 unique audience across two days)** and over **100 relevant Academic and Research Institutes**. Apart from these, IGCW will be participated by around **50+ senior officials from Govt. bodies, Industrial Associations, NGOs & Media**. **Overall IGCW-2023 Convention will be attended by over 750 chemical community representatives during the two-day Convention.**

The illustration below will provide you a statistical overview of the participants attending in various capacities of IGCW Conventions over the years.

Associate Partners (invited)

INDIA:

- Ministry of Chemicals & Petrochemicals, Govt. of India,
- Ministry of Environment & Forests (MoEF), Govt. of India
- Dept. of Science & Technology (DST)
- Scientific Engineering Research Board (SERB); Govt. of India
- Council of Scientific & Industrial Research (CSIR), Govt. of India
- Central Pollution Control Board (CPCB)
- Maharashtra Pollution Control Board (MPCB)
- Maharashtra Industrial Development Corporation (MIDC)
- Industry Associations (ICC, ISCMA, DMAI, PMFAI, BDMA and other region-specific Industry Associations)

INTERNATIONAL:

- ACS- Green Chemistry Institute (ACS-GCI)
- Together for Sustainability (TFS)
- Pharmaceutical Supply Chain Initiatives (PSCI)
- International Sustainable Chemistry Collaborative Centre (ISC3), Germany
- Green Chemistry & Commerce Council (GC3), USA
- The Warner-Babcock Institute for Green Chemistry, Boston, USA

- Center for Green Chemistry & Engineering at Yale, USA

Convention Structure

The 7th IGCW-2023 Convention and Ecosystem, is designed to serve as a multi-dimensional ecosystem, engaging diverse stakeholders from Industry, Research Institutes, Govt. bodies, Academia, etc., in various subject-specific and sector-specific deliberations across the two-day Convention.

The IGCW-2023 Convention will host 9 subject-specific and sector-specific parallel events over two days, with a cumulative participation of over 300+ senior leadership from Indian Chemical Industry, Govt. bodies, Academia and Research Institutes participating in various capacities. Refer table below. The overall structure of the Convention will offer ample opportunity for networking and time in-between sessions for the Convention attendees to visit IGCW EXPO.

Overall Convention Structure & Day-wise Expected Audience		
Day I, 6 th Nov.'23 6 PM to 9 PM	IGCW-2023 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, 7 th Nov.'23 9 AM – 6 PM	Conference for State Pollution Control Boards Technical Sessions 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, 8 th Nov.'23 9 AM – 6 PM	Technical Sessions IGCW EXPO	

EXPO Invitation

Emerging Green Chemistry Market in India- an overview:

The Green chemistry market growth in India has recently gained momentum. This has been evident through growth in new emerging areas the Indian Chemical Industry has started exploring recently. Green Chemistry is now longer in awareness stage in India; rather the latest statistics in few areas of green chemistry have proved the shift from awareness to implementation.

Following are the upcoming specific sectors towards which there is a huge market demand and business potential in India over the coming years:

Industrial Sector	Promising attributes/ Opportunities
Industrial Enzyme segment	<ul style="list-style-type: none"> Indian Current Market: \$75 million The bio-industrial sector turnover in India is \$130 million, Growth rate 5.33 % Global industrial enzyme market estimate: \$630 bn by 2022.
Biotech segment	<ul style="list-style-type: none"> Indian Current Market :\$11 billion, Estimated: \$ 100 billion mark by 2025 as per the forecast of the Association of Biotechnology Led Enterprises (ABLE) 30% growth rate every year as per Make in India Initiative survey. Global Current Market: \$218 bn, Estimated: \$727.1 bn by 2025. Growth Rate: 7.4%

Biopharmaceuticals	<ul style="list-style-type: none"> • Annual Indian Market growth rate: 15 %. • Estimated Indian Market: \$200 bn by 2020. • Global Current Market: \$ 237 bn in 2018, Estimated: 77\$389 bn in 2024 CAGR of 8.59%
Biopolymer segment	<ul style="list-style-type: none"> • Is at nascent stage in India • Global Market: \$ 9.8 bn by 2024. CAGR of 11.2%
Biofuel segment	<ul style="list-style-type: none"> • Indian Market: \$1bn in 2016, Estimated: \$7.5bn by 2022 • Global Market: \$100bn in 2016, Estimated: \$ 133bn by 2023 from

Moreover, India being a upcoming manufacturing hub, the immediate solutions that have great scope in the Indian Chemical Industry market are: - process intensification solutions, waste valorization solutions, end of the pipe solutions like ZLD solutions, wastewater treatment solutions, advanced separation solutions including membrane technology, LCA and computer aided product design technologies.

Who can exhibit?

The IGCW-EXPO is uniquely designed to enable maximum industry interactions with focused GC&E solution providers. Based on Indian Chemical Industry's GC&E existing and emerging requirements, we have identified following areas, and further categorized these technologies based on its time-frame of readiness to implement / adopt by Chemical companies in India.

Companies / Research institutes offering solutions and technologies as listed out in the he adjacent quadrant are invited to explore the IGCW-2023 EXPO.

Immediate solution providers <ul style="list-style-type: none"> • Recycle at the source • Zero Liquid discharge • Green process simulation solutions • Process intensification • Innovative ETP solutions • Education training and publications • Green consultants and strategies • Sustainable recycling solutions • Waste-valorization 	Short-term solution providers <ul style="list-style-type: none"> • Solvent recovery solutions • Biocatalysis • Sustainable metal catalysts • Green solvents • Green additives (surfactants, chelates, etc) • Green reaction medium • Innovative approach to COD and BOD reduction • Green startups and SMEs • Green analytical chemistry
Mid-term solution providers <ul style="list-style-type: none"> • Micro-reactor technology • Flow chemistry • Green engineering • Supercritical extractions • Ionic liquids • Switchable solvents • Solvent free process • Green dyes pigments and inks • Lifecycle analysis • Green metric implementation • Solar energy and engineering solutions • Green chemistry and intermediates • Safer chemicals design • Industrial ecology approach 	Long-term solution providers <ul style="list-style-type: none"> • Renewable feedstocks, biomass and materials • Bio-based systems • Microwave chemistry and engineering • Green substrates • Green tech/clean tech solutions • Biotech/nano tech solutions • Green synthesis route • Biomimetic solutions • Synthetic biology

Why Exhibit?

- The IGCW EXPO is India's first & only platform that brings together Green Chemistry & Green Engineering solution and technology providers from across the World.
- Opportunity to harness Indian Chemical Industry's burgeoning Green Chemistry market (refer Market overview above).
- Visited by 750+ senior decision makers from Industry, Academia, Research Institutes & Govt. bodies.
- Offers a conducive ecosystem to engage in one-to-one business interactions with the participating companies.
- Unique value-proposition of presenting your technical case-studies in subject-specific events to a filtered audience from the Industry.

Feedback from past IGCW-2019 EXPO participants

- 74% of exhibitors of the IGCW-EXPO mentioned that the overall experience was good
- 78% of the past exhibitors found the footfall in the exhibition space was overall good

- 79% felt that the visitors to their booth were the right level of decision makers/influencers from solution seeking organisations
- 74% felt that the IGCW ecosystem provided ample opportunity to meet business potentials.
- 48% of respondents were first time exhibitors. When asked to compare IGCW with other Green Chemistry trade shows
- 53% thought IGCW EXPO fared better than most of the other Green Chemistry events
- 52% of the respondents responded that they would be most likely participate as exhibitors in future IGCW events.

Exhibition Fees

- ✂ **Premium booth (4x2 SqM): INR 2,00,000 (USD 2,450) + Taxes as applicable**
- ✂ **Standard booth: (2x2 SqM): INR 1,25,000 (USD 1,525) + Taxes as applicable**

The above fees, includes the following entitlements:

- Presentation slot in a relevant event of IGCW-2023 Convention
- Listing of Company logo & Profile in convention catalogue and website (Pre, during and Post-event)
- Fabricated shell scheme booth/stall
- Fascia board with company name, floored carpet, 1 Counter table, 2 chairs, 1 waste basket, 2 spotlights (100 watt each)
- 2 X complimentary delegate entry to attend the full convention
- Participants list with contact information.

With this background, scope, and structure, we hereby invite your company to participate in the “IGCW-2023 EXPO” feature of the 7th Industrial Green Chemistry World (IGCW-2023) Convention & Ecosystem, for enhancing your business presence and prospects in India.



Nitesh H. Mehta

Convener IGCW-2023, Co-founder & Director