

October 5-6,
Mumbai, India

igcw
2017
industrial green chemistry
world

**Convention
&
Ecosystem**

***Profitability from Industrial
Green Chemistry and Engineering***

Venue :

**Ramada Powai Hotel And Convention Centre,
Mumbai, India**

industrial green chemistry

2025

2023

2021

2019

igcw
2017

igcw
2015

igcw
2013

igcw
2011

1950

2000



igcw
2009

Organized by

Green Chemis tree
Foundation

www.IndustrialGreenChem.com



Vision Theme Approach :

- 🌱 **Ignite** awareness of Industrial Green Chemistry & Engineering (IGC&E) amongst the key stakeholders of Chemical Industry
- 🌱 **Inspire** industrial leadership to explore economic potential of IGC&E
- 🌱 **Initiate** strategic partnerships that offer a competitive edge to deal with environmental and economical challenges
- 🌱 **Identify** priority challenges of Scale-up and Commercialization of IGC&E practices
- 🌱 **Invent** core strategies to stay ahead of emerging global regulations on environmental issues
- 🌱 **Innovate** means for integrating technologies to eliminate hazard at the design stage as well in the manufacturing processes
- 🌱 **Implement** IGC&E practices to achieve the triple bottom line for our Planet, People & Profits
- 🌱 **Industrialization** of IGC&E to transform the 20th Century 'Grey Industrial Age' to 21st century 'Green Industrial Age'
- 🌱 **Impact** in a tangible way, the quality of air, water & soil through above deliberations.



What is IGCW ?

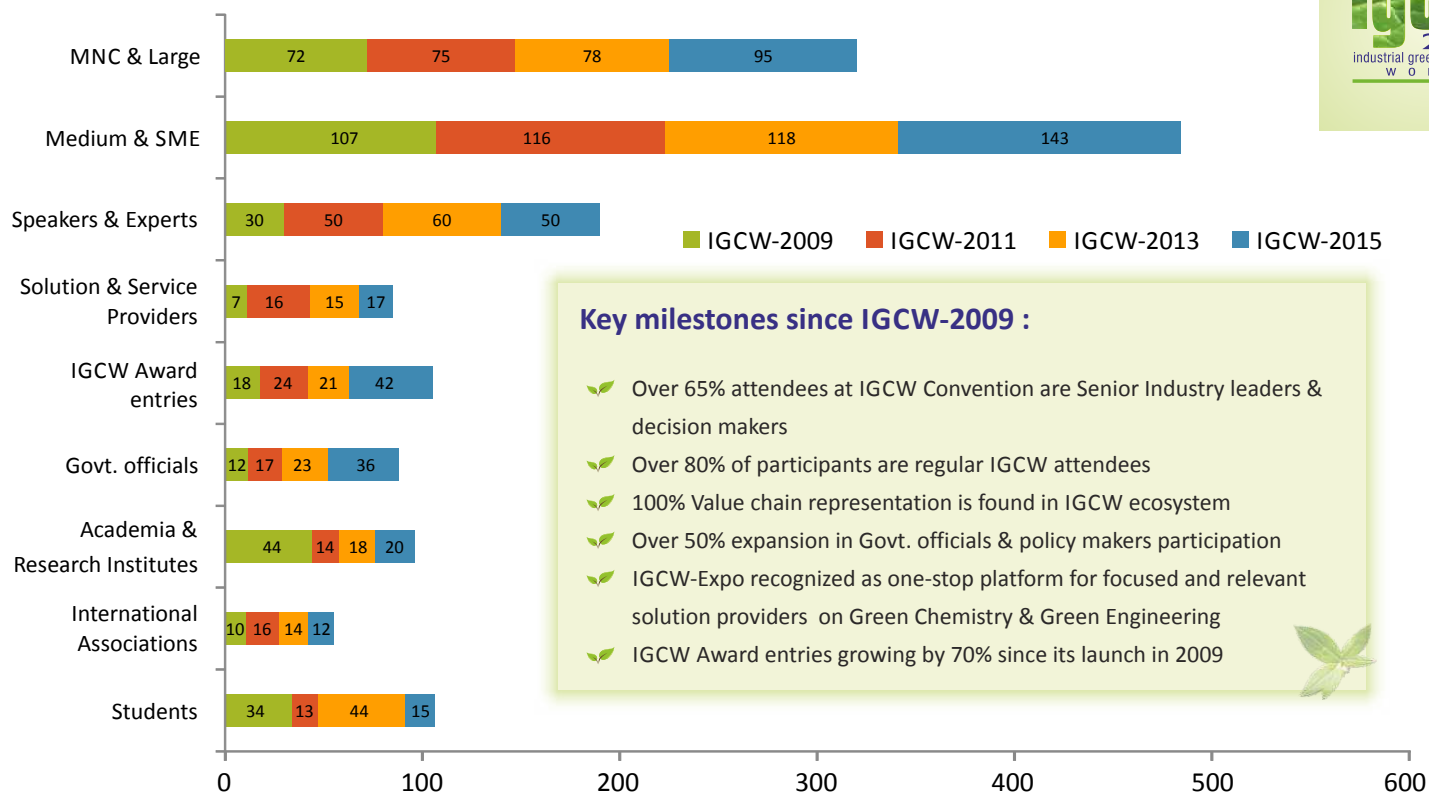
- 🌱 India's dedicated Convention designed to accelerate the implementation & industrialization of Green Chemistry and Engineering (GC&E) practices
- 🌱 An ecosystem that brings together diverse stakeholders for enabling collaborations to accelerate Green Chemistry implementation in Indian Chemical Industry
- 🌱 An on-going platform for exploring, exchanging and engaging in GC&E tools, technologies, applications and success stories



5th IGCW-2017 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 Chemistry and Engineering practices
- 🌱 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 Indian initiatives in GC&E direction through IGCW Awards





**Two days | 6 dimensions | 40+ global experts
over 300 chemical community stakeholders' participation**



IGCW 2017 Speakers



Prof. Paul Anastas,
Founder, 12 Principles of Green Chemistry and Green Engineering, Director, *Centre for Green Chemistry & Green Engineering at Yale, USA*



Dr. John Warner
Co-Founder, 12 Principles of Green Chemistry President, CTO, Board of Directors, *The Warner Babcock Institute for Green Chemistry, USA*



Dr. David Constable
Director,
American Chemical Society- Green Chemistry Institute, USA



Prof. Chao-Jun Li,
Department of Chemistry,
McGill University, Canada



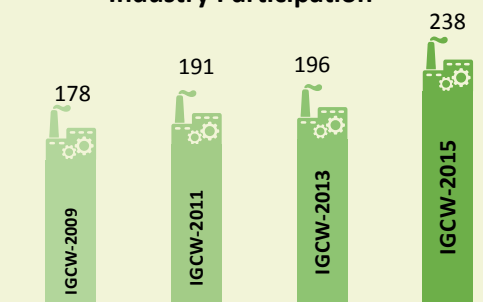
Mr. Nitesh Mehta
IGCW Convenor & Founder Director,
Newreka Green Synth Technologies Pvt. Ltd., India



IGCW 2017 Symposium, 5th & 6th Oct. 2017

- Opportunity to meet & interact with global green chemistry experts
- Designed to bring forth world's best industrial practices and success stories
- Focused interactions with renowned scientists and practitioners of green chemistry
- Over 20 Invited Speakers & experts
- 300+ participants across two days
- Uniquely adapted on the 9-i Theme Approach

Industry Participation



Participants will include chief representatives from chemistry-intensive sectors:

- Pharmaceuticals
- Dyes & Pigments
- Agro-chemicals
- Specialty, Fine and Performance Chemicals

IGCW Symposium structure: Theme Approach

Themes: Ignition, Inspiration & Initiation

Day 1 is designed for Chairpersons, Board of Directors, Founders, President, CEOs and other Senior decision makers

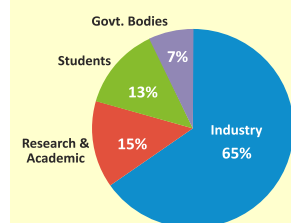
Themes: Identification, Invention & Innovation

Day 2, pre-lunch is designed for the R&D and Technology leaders such as CTOs, CSOs, R&D Managers, Inventors, Innovators, Consultants, Technocrats, etc.

Themes: Implementation, Industrialization & Impact

Day 2, post-lunch is designed for Plant and Operations' personnel, Directors, Presidents, VPs, Plant Managers, EHS Managers

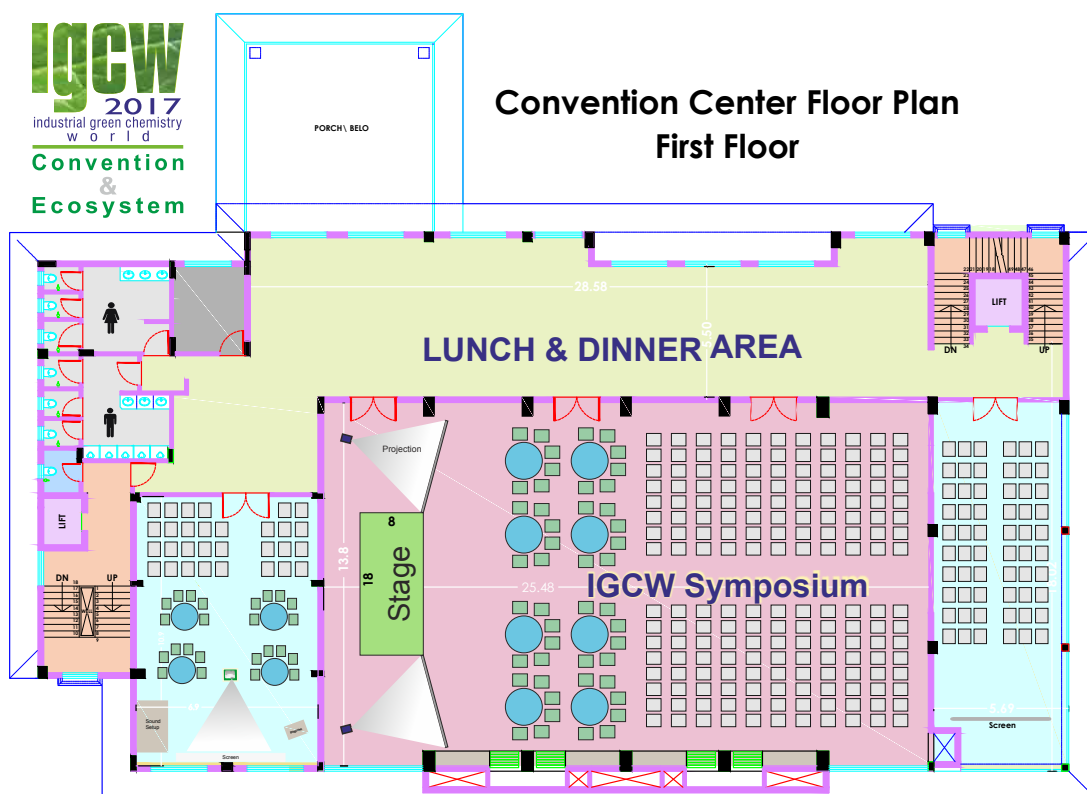
Delegates Distribution



IGCW-2017 Convention structure:

**Two days | 6 dimensions | 40+ global experts
over 300 chemical community stakeholders' participation**

Day	Time-slots	IGCW Symposium	180° Seminars Series	IGCW EXPO	IGCW Conference
Day I, 5 th Oct. 2017, Thursday	09:00 to 13:00 hrs	Themes: Ignition, Inspiration & Initiation For Senior Management of Chemistry-intensive Chemical Companies (Pharma, API, Agro, Dyes & Dye- Intermediates, Fine & Speciality Chemical manufacturing companies)		Green Chemistry & Green Engineering based Solutions, Services, Products & Technology providers' technology showcase open on both the days (Open to all)	" Industrial Green Chemistry Awareness " for State Pollution Control Boards (by invitation only)
	14:00 to 17:30 hrs				
	18:30 hrs onwards	IGCW Award Evening & Dinner			
Day II, 6 th Oct. 2017, Friday	09:00 to 13:00 hrs	Themes: Identification, Invention & Innovation For R&D Directors & Scientists	1. Green Processes 2. Green Catalysts		Research Institutes - Industry interactions for accelerating Green Chemistry Implementation
	14:00 to 17:00 hrs	Theme: Implementation, Industrialization & Impact For Plant, Production & Operations' Director & Managers	3. Green Solvents 4. Green Engineering		



Delegate Fees

* Exclusive of local taxes as applicable

Industry Fees

INR 20,000/- for Full Convention
INR 12,500/- for Any One day

Academia Fees

INR 15,000/- for Full Convention
INR 9,000/- for Any One day

Student Fees

INR 5,000/- for Full Convention

International Fees

USD 600 for Full Convention
USD 300 for Any One day

Registration details :

- Modes of payment : Cheque / e-Transfer in favor of 'Green ChemisTree Foundation'
- To register & pay online visit <http://bit.ly/2gOnYxW> OR
- E-mail participant details on connect@industrialgreenchem.com





IGCW Awards continue to be an opportunity for Industry, Academia, Researchers and Students to get their Green Chemistry and Green Engineering inspired stories recognized globally.

Nomination Categories



MNC & Large scale Industry



Startup and SMEs



Knowledge Community

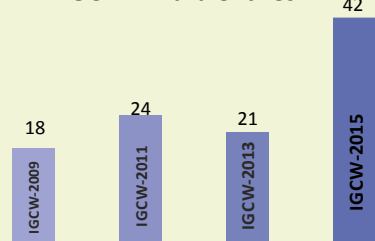


Students



Most Promising Technology

IGCW Award entries



Past IGCW Award Winners are:

Categories / Year	2015	2013	2011	2009
Large & MNC	Pidilite Industries Ltd.	Dr. Reddy's Laboratories Ltd.	Orchid Pharmaceuticals Ltd.	PI Industries Ltd.
SME	Applied Science Innovation Pvt. Ltd.	Equinox Software & Services Pvt. Ltd.	STEPS	Catapharma Pvt. Ltd.
Academician	Dr. Bhubaneswar Mandal, IIT-Guwahati	Dr. Prabhavathi Devi - IICT	Dr. K. K. Senapati - Guwahati University	Dr. J S Yadav - IICT
Students	Mr. Saurabh Patankar, ICT-Mumbai	Ms. Sujata Pramanik - University of Tezpur	Dr. Taher S Dakorwala - GIST Praj Industries Ltd.	Biosynth Group - IITB
Most Promising Technology		Dr. Taher S Dakorwala - Gharda Institute of Research & Technology (GIST)		



IGCW Award categories are:

- Knowledge Community** : Academicians / Researchers / Technocrats
- Students** : Students pursuing research for their Masters, Doctoral thesis or Post-doctoral fellowship
(Shortlisted Nominees in the above Academia Categories will be provided with complimentary Executive pass to attend the full Convention, along with one night accommodation at the Convention Venue and to and for travel reimbursements.)
- Startup and SMEs** : Technopreneurial, Enviropreneurial companies, Knowledge based start-ups and small to medium scale industries
- MNC and Large scale Industries** : Established MNC or Large scale companies
(Shortlisted Nominees in the above Industry Categories will be provided with Complimentary Guest pass)



IGCW 2017 EXPO

IGCW-2017 offers an apt industrial platform for start-ups, technocrats, green & clean technology companies, Researchers & Scientists to showcase their green chemistry and/or green engineering relevant technologies and solutions at the IGCW-2017 EXPO.

Following emerging technologies, products, solutions and /or service providers are invited to showcase at 5th IGCW-2017 EXPO :

Immediate solutions

- Recycle-at-source technologies
- Zero liquid discharge solutions
- Green process simulation solutions
- Process Intensification
- Innovative ETP solutions
- Education, Training and Publications
- Sustainable recycling solutions
- Waste-valorization
- Bio-membrane technologies, etc.

Short-term solutions

- Solvent recovery solutions
- Bio-catalysts
- Sustainable metal catalysts
- Green Additives (Surfactants, Chelates, Reagents, etc.)
- Green solvents
- Green reaction medium
- Innovative approach to COD/BOD reduction
- Green analytical chemistry

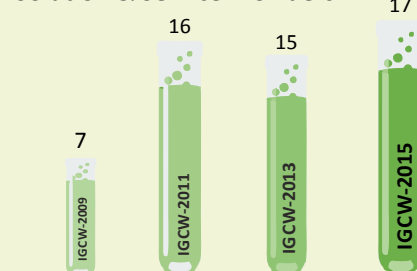
Mid-term solutions

- Micro-reactor technologies
- Flow chemistry
- Green Engineering solutions
- Super-critical extractions
- Ionic liquid solvents
- Switchable solvents
- Solvent free processes
- Green dyes, pigments and inks
- Life-cycle analysis and Green metrics
- Low toxicity chemicals
- Industrial ecology approach / model

Long-term solutions

- Renewable feedstock
- Bio-based chemicals
- Micro-wave chemistry and engineering
- Green substrates
- Biotech / Nano-tech solutions
- Green synthesis route

Solution & Service Providers

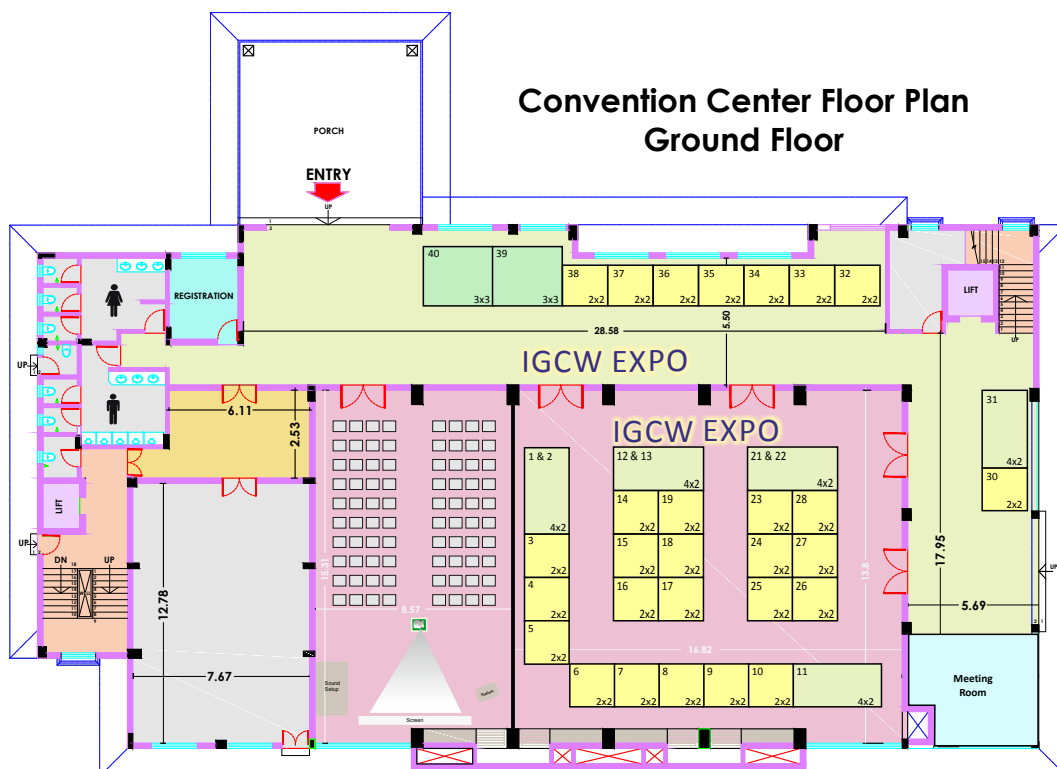


Date & Timing :

Day I - 5th Oct., 2017 (11:00 - 18:00)

Day II - 6th Oct., 2017 (09:00 - 16:00)

Convention Center Floor Plan Ground Floor



- Premium Booth (4x2 Sq. mt.)
- Standard Booth (2x2 Sq. mt.)
- Booked Booth

IGCW – 2017 EXPO participation fees :

- Premium Booth (4x2 Sq. mt.)
 - INR 2,00,000 + Taxes (India)
 - USD 3000 (International)
- Standard Booth (2x2 Sq. mt.)
 - INR 1,25,000 + Taxes (India)
 - USD 2000 (International)

Academia & Research Institutes

- 25% discount on above choices

To partner with us in co-organizing any of the above IGCW-2017 EXPO, please write to sandra.dsa@industrialgreenchem.com



180° Seminars	Green Processes , 09:30 - 11:00
	Green Solvents , 11:30 - 13:00
	Green Catalysts , 14:00 - 15:30
	Green Engineering , 16:00 - 17:30

The 180° Seminar focuses on topics which are most relevant for the industrialisation of Green Chemistry and Green Engineering based applications.

These Seminars identify subject-specific impact areas, designed to bring forth a metaphorical “180°” paradigm shift for integrating a ‘greener’ approach in process-intensive chemical manufacturing units.



180° Seminar Topics

Green Processes (09:30 to 11:00)

- Designed to bring forth technical insights and know-how for reducing processes' E-factor (Kgs of waste generated / per kg of the final product)
- Case-studies on cost-effective manufacturing processes set at normal pressure and temperature conditions, effective recycle of reaction extraction medium, new route selection, safer reagents and solvents with industrial ecology approach
- Take back insights on green standards and specifications to create a roadmap with tools needed to integrate the greening of a multi-step manufacturing process into “green processes”

Green Solvents (11:30 to 13:00)

- Designed to explore means and solutions for minimizing the environmental impact resulting from the extensive use of solvents in chemical production
- Take back insights on measuring and distinguishing the “greenness” of an alternative solvent
- Get connected to tools for evaluating various comprehensive assessment methodologies for new solvent technologies
- Case-studies on ionic liquids, diutectic liquids, supercritical fluid extractions, water-based reactions, etc to access environmental and economic benefits

Green Catalysts (14:00 to 15:30)

- The Seminar will bring forth successful case-studies on replacing conventional stoichiometric & metal catalyst by sustainable metal catalysts
- Expanding technical know-how on biocatalytic and enzymatic routes
- Successful case studies on traditional catalytic process being replaced by “green catalyst” to get economical benefit and reduce environmental impact
- Getting connected to potential collaborators and technology providers on 'green catalysts'

Green Engineering (16:00 to 17:30)

- Designed to bring forth emerging aspects of “green engineering” for process intensification, water & energy optimization, reduced waste and toxicity, leading to higher safety
- Exploring potential contribution of flow chemistry and micro-reactors in reducing the overall environmental footprint of chemical manufacturing
- Case-studies on “Green Engineering” technologies incorporated at the design stage of materials, processes, systems, and/or devices which can minimize the overall environmental footprint of Process Industry



One-day Conference exclusively for State Pollution Control Boards; IGCW-2017, Day I- 5th Oct. 2017

Objectives of the PCB Conference :

- To introduce & expand awareness about Green Chemistry & Green Engineering amongst PCBs
- To deepen its technical understanding and various approaches for preventing pollution at source
- To expand their understanding of regulatory initiatives and successful approaches in other parts of the world like USA, UK and Europe
- To provide a conducive platform for sharing their thoughts, ideas and experiences and thereby, learn from each other's initiatives & experiences
- To get connected to Green Chemistry and Green Engineering based environmental solution providers and experts



Research Institutes - Industry interactions for accelerating Green Chemistry Implementation, IGCW-2017, Day II- 6th Oct. 2017

The research ecosystem in India presents a significant opportunity for Chemical Industry across the globe to benefit from its intellectual capital available in the country.

This unique platform is designed to tap the potential of Research Institutes by facilitating one-to-one interactions between National Research Institutes and Chemical Industry, with the objective to accelerate Research-Industry collaborations in the Green Chemistry direction.

Profit-centric Green Chemistry implementation demands staying ahead in integrating next generation technologies. The Research Institutes with its intellectual capital, and the financial back-up of several partnership schemes promoted by the Govt. of India; serves as the most cost-effective transfer agents of both knowledge and technology. In addition to being the primary developer of cutting edge technologies in Green Chemistry space, the Research Institutes in India are best positioned to facilitate the industry in advancing its technology, products and processes and provide strategic advantages for industries to compete globally.



IGCW 2017 Workshop for Teachers & Students

Interactive Workshops will be organized for Chemistry Teachers and Students pursuing the field of Green Chemistry and/or Green Engineering, offering timely opportunity to interact with global experts, industry stalwarts and thought-leaders.

These Workshops will be held on 7th October in collaboration with leading Academic Institutes.

IGCW 2017 Partnership Opportunity

Partnership Capacities

Title	International Partners (USD)	Indian Partners (INR)	Standard Entitlements
Sustainability Partner	20,000	10,00,000	Customized entitlements*, in addition to the standard entitlements mentioned below
IGCW Award Partner	NA	7,50,000	Exclusive branding during IGCW2017 Awards Evening, in addition to the standard entitlements mentioned below
Green Chemistry / Green Engineering Partners	15,000	6,50,000	<ul style="list-style-type: none"> ✓ Affiliation as the 'category' partner in all pre, during and post, print & web promotions
4R-Partners (Recycle, Reduce, Reuse & Recover)	8,000	4,44,400	<ul style="list-style-type: none"> ✓ Branding & visibility benefits will vary based upon the choice of Partnership category
180° Seminar Partner Categories : - Green Processes - Green Solvents - Green Catalysts - Green Engineering	6,500	3,50,000	<ul style="list-style-type: none"> ✓ 2x2 Complimentary stall / Table-space at the IGCW-2015 EXPO (subject to category choice) ✓ Complimentary delegate passes (subject to category choice) ✓ Extensive media coverage (Local & International, subject to category choice)
IGCW Cause Partners	5,000	2,50,000	<ul style="list-style-type: none"> ✓ Access to e-IGCW social media reach-out and non-linear branding
IGCW Donor Partners	NA	2,00,000	<ul style="list-style-type: none"> ✓ Listing of logo in all print and web promotion literature
Students & Teachers Workshop	3,500	1,50,000	* Subject to prior agreement.



Branding & Advertising Opportunities:

Category	Amounts in INR	Amount in USD
Insert in Delegate kit	50,000/-	1500
One company standee in prime location	45,000/-	1000
Colour Advert in IGCW Convention Catalogue (Inside front page)	35,000/-	850
Colour Advert in IGCW Convention Catalogue (Inside back page)	25,000/-	650
One-page Advert	25,000/-	500



PAST PARTICIPANTS

MNC & Large Chemical Companies



Small & Medium Chemical Companies



Knowledge Community (Research Centers, Research Institutes, Start-ups, Technocrats, Consultants, etc)



Academia, Government Institutes & Associations



Media



Comments & Feedback

While I was only there for one day, I could tell that it was extremely successful. Congratulations on putting together a wonderful event.

- Dr. John C Warner, Co-Founder 12 Principles of Green Chemistry, CTO - Warner Babcock Institute of Green Chemistry, USA

You all have made a huge commitment to implementing green chemistry and engineering in India and all your hard work and sacrifice is beginning to be rewarded, I think. Thank you for all you have done, and continue to do. It's truly inspiring!

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

Thank you for the excellent conference you hosted and organized in Mumbai, never we had so potential connections to develop. My sincere thanks on behalf of Prof. James Clark, Dr. Matharu, myself and everyone at York who is making new links with Indian green chemists.

- Dr. Mark Gronnow, Green Chemistry Center for Industry Excellence, York University, UK

It was a good show put up by you and your team. The event was satisfying in terms of industry presence and our content of discussions/presentations. Look forward to the next programme. Do share the details when ready.

- Mr. Girish Thorat, General Manager – India, ROCHEM Separation Systems, India

IGCW was very good opportunity for us to introduce new products to potential customers from pharmaceutical and fine chemical industry in India.

- Shunji Sakamoto, ZEON Corporation Speciality Chemical Division, Japan

It was indeed fruitful exhibiting at the IGCW Symposium which gave an insight of the industry working for the Green Environment. We had quite good interactions with few fellow industrialist to see how we can contribute to the same. Thanks for your support and Congratulation to you and your team for the successful event.

- Mr. Rahul Kirkinde, Business Head- API Healthcare, Advanced Enzymes Technologies Ltd., India



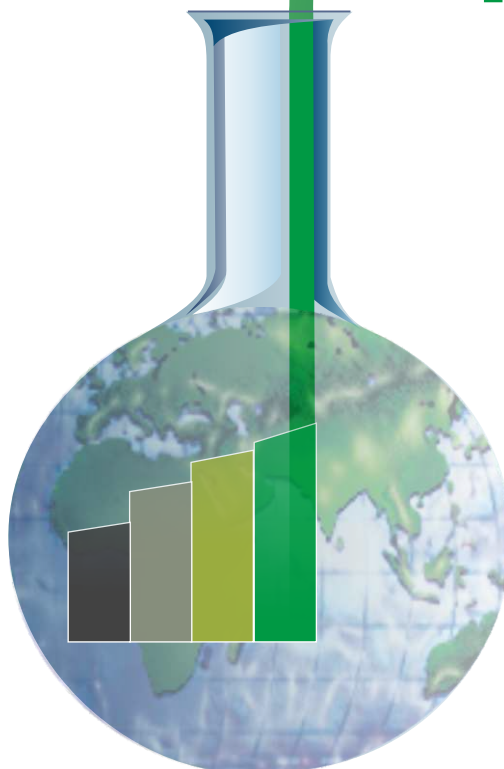


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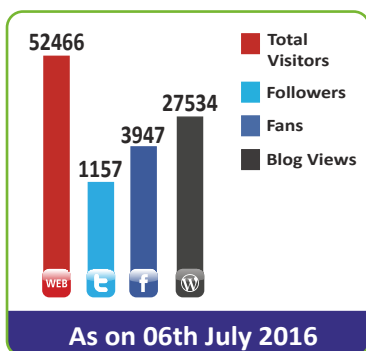
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**Convention
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industrial green chemistry
a new vision for
one earth, one future



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Organizer :



Green ChemisTree Foundation

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Tel. : +91-22-2879 1275 / 1835

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Email : connect@greenchemistree.co.in

Url : www.greenchemistree.co.in

www.IndustrialGreenChem.com

What is Industrial Green Chemistry World ?

- ✧ India's first & largest Industrial Convention dedicated to GC&E.
- ✧ Brings together diverse stakeholders - Industry, Govt. Bodies, Regulatory Agencies, Research Institutes, Associations, Academia, Students, Media and NGOs).
- ✧ Recognized by global GC&E communities.
- ✧ Focusses on GC&E implementation in chemistry-intensive sectors such as Pharma., Agro, Dyes & Pigments, Fine and specialty chemical sectors.

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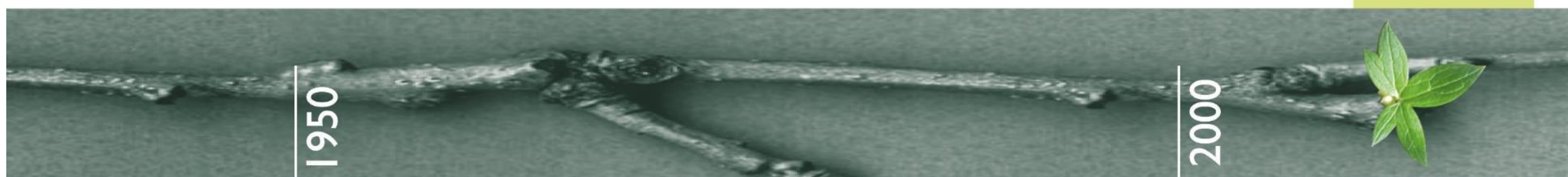
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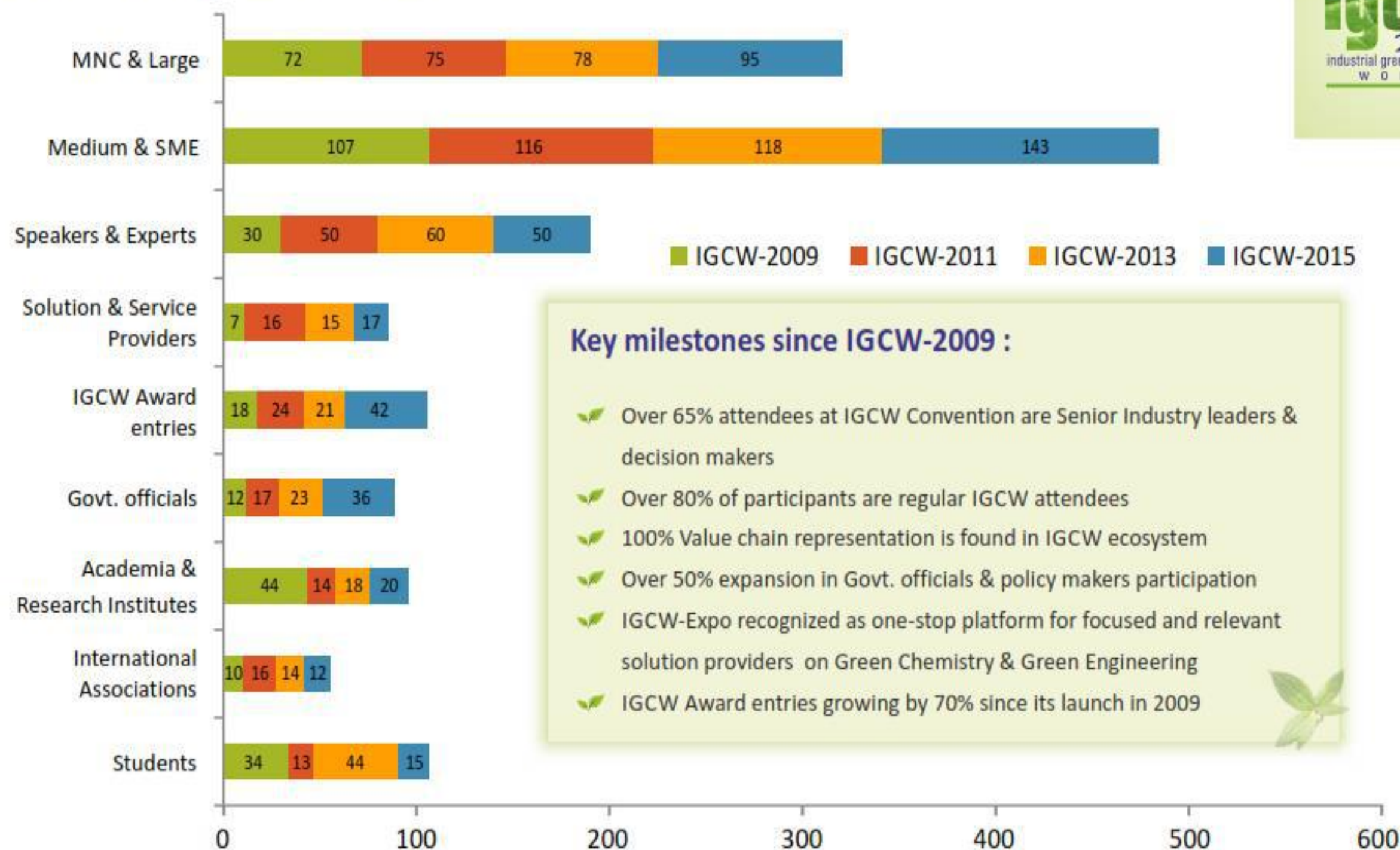


Organizer



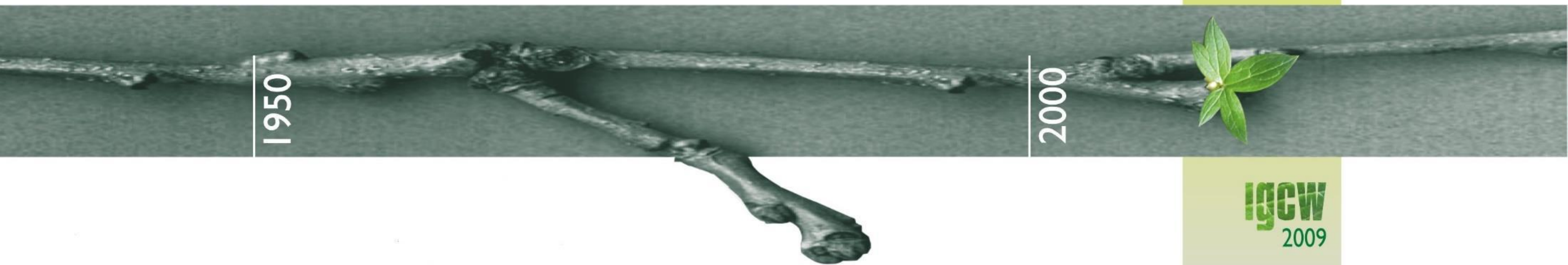
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2009

IGCW ecosystem since 2009



Key milestones since IGCW-2009 :

- Over 65% attendees at IGCW Convention are Senior Industry leaders & decision makers
- Over 80% of participants are regular IGCW attendees
- 100% Value chain representation is found in IGCW ecosystem
- Over 50% expansion in Govt. officials & policy makers participation
- IGCW-Expo recognized as one-stop platform for focused and relevant solution providers on Green Chemistry & Green Engineering
- IGCW Award entries growing by 70% since its launch in 2009

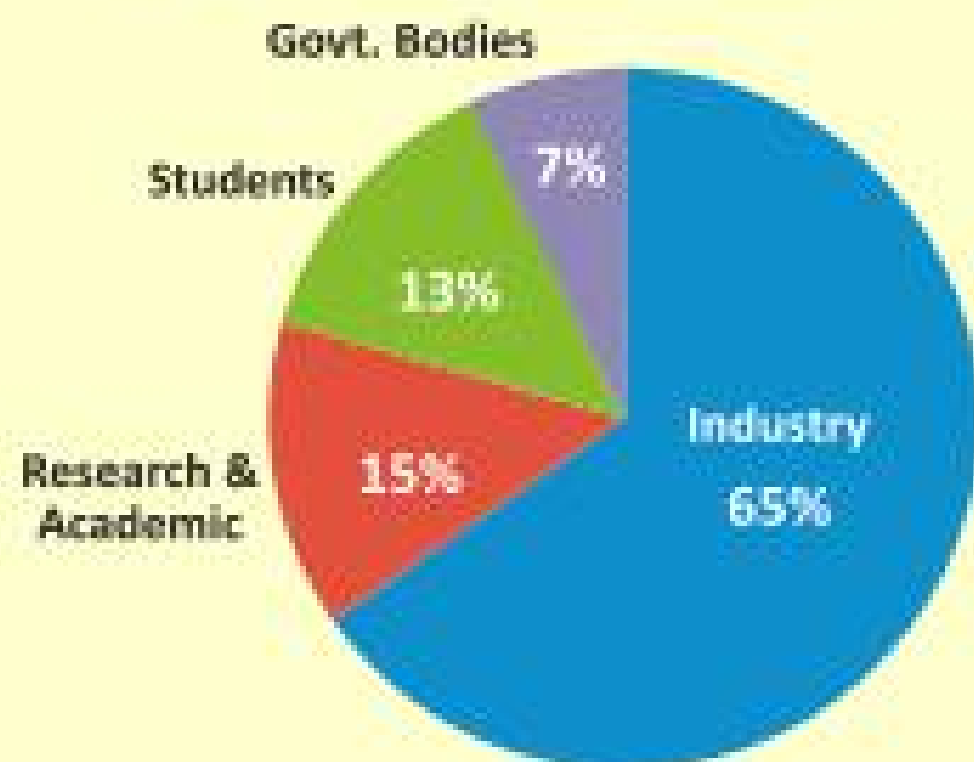


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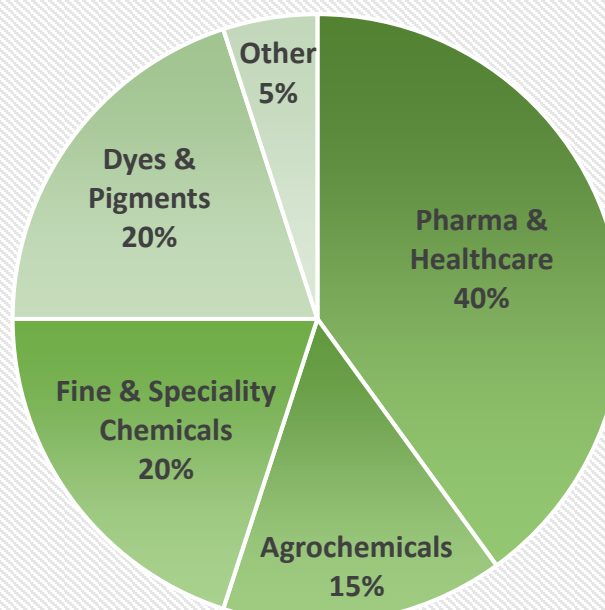
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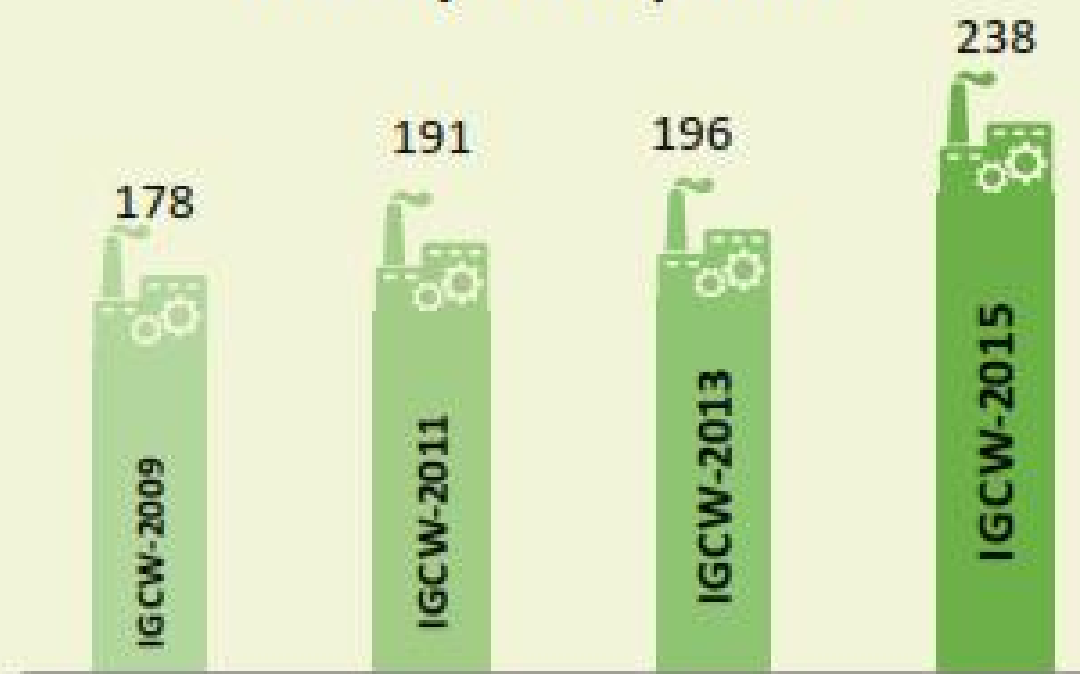
Delegates Distribution



IGCW sector-wise Industry participation



Industry Participation



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IGCW-2017 Ecosystem Day I, 5th Oct. 2017, Thursday

Day I, 5 th Oct.'17	Hall	Time-slot	Theme	Participants' profile	Expected no. of Attendees	Status
IGCW-2017 Sympo	Emerald Ballroom First floor	9:00 to 17:30	9-i Themes: Ignition, Inspiration & Initiation	Senior Management and chief decision makers of Chemical Industry (Pharma API, Agro, Dyes & Pigments, Fine & Specialty chemical manufacturing sectors); Senior Govt. representatives. Policy makers / influencers.	150	Confirmed
IGCW-DST Award Evening	Emerald Ballroom First floor	18:30 to 21:30	IGCW-DST Award Felicitation followed by networking dinner	Participants of IGCW Symposium, Invited guests, Senior Govt. officials, distinguished scientists, experts from Academia & Research Institutes	200	Confirmed
IGCW-PCB Conference	Sapphire Ballroom First floor	11:30 to 17:00	Role of State Pollution Control Boards in Green Chemistry implementation for Pollution prevention	Member Secretaries, Chief Environment Engineers, senior representatives of State Pollution Control Boards	40	Confirmed
IGCW-CSIR Industry Interactions	Seminar Hall First floor	11:30 to 17:00	Partnering with CSIR Labs for accelerating Green Chemistry Research & Implementation	CSIR Principal Scientists, Head of Research departments, senior decision makers, R&D chiefs, etc.	50-60	Confirmed
IGCW-Flow Chemistry Conference	Crystal Ballroom I	11:30 to 17:30	Conference on Flow-chemistry	Chief representatives from Production, Operations, Plant & EHS.	80-100	Proposed
IGCW-EXPO	Crystal Ballroom II & III & Pre-function area, Ground floor	Day I: 11:00 to 19:30 Day II: 09:30 to 17:00	Exhibition by ~40 companies, institutes, offering GC&E solutions, technologies, tools, and services	Open to all	+500 Visitors	Confirmed

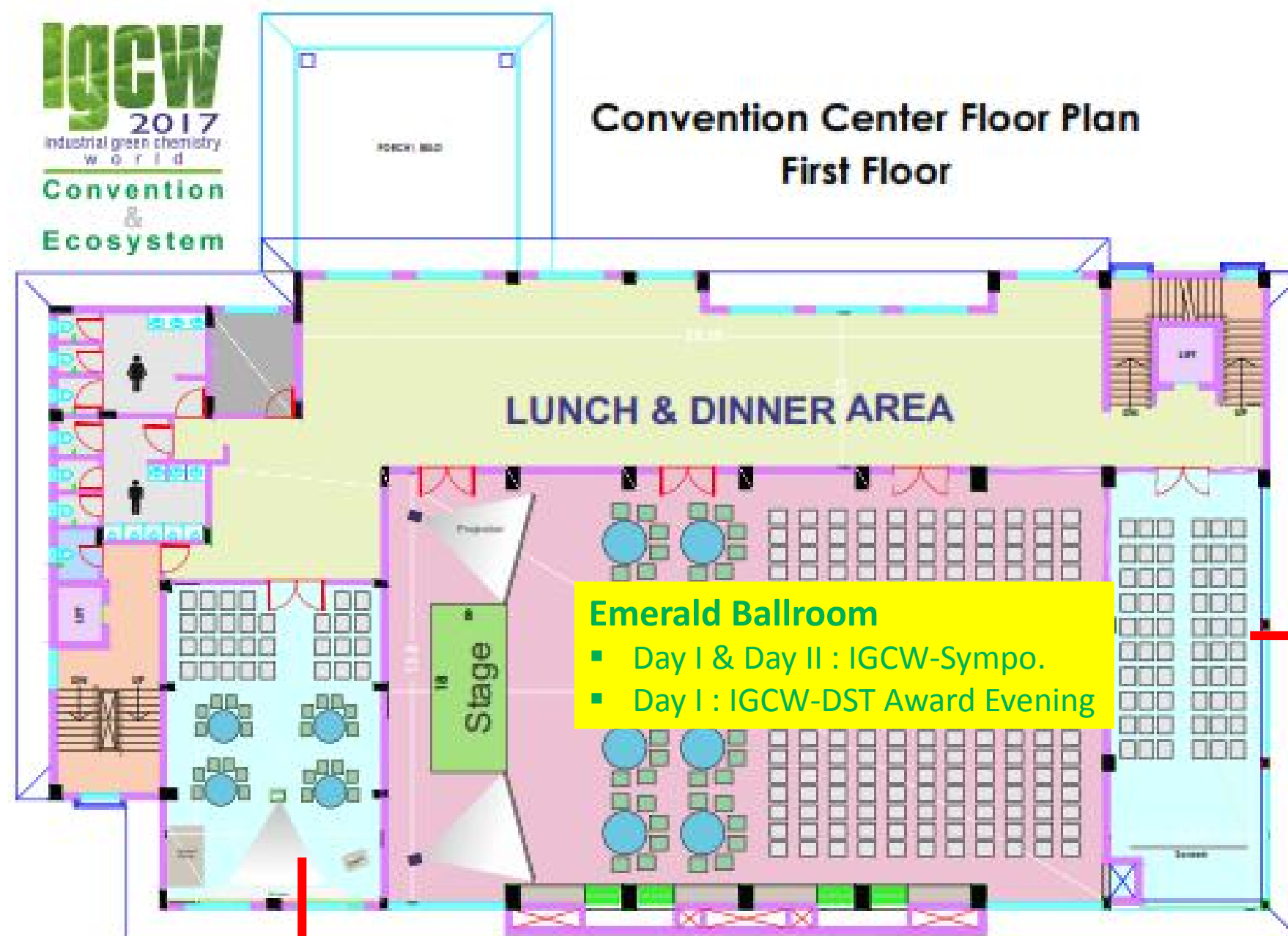
IGCW-2017 Ecosystem Day II, 6th Oct. 2017, Friday

Day II, 6 th Oct.'17	Hall	Time-slot	Theme	Participants' profile	
IGCW-2017 Sympo.	Emerald Ballroom, First floor	09:00 to 13:00	9-i Themes : Identification, Invention & Innovation	Chief representatives from R&D, R&T, Chief of Innovation Centers, Academia, Research scientists, etc.	1
IGCW-2017 Sympo.	Emerald Ballroom, First floor	13:00 to 17:00	9-i Themes: Implementation, Industrialization & Impact	Chief representatives from Production & Operations, Technocrats, Plant Managers, EHS Managers, etc.	1
IGCW-EXPO	Crystal Ballroom II & III & Pre-function area, Ground floor	Day I: 11:00 to 19:30 Day II: 09:30 to 17:00	Exhibition by ~40 companies, institutes, offering GC&E solutions, technologies, tools, and services	Open to all	+
IGCW-180° Seminars	Sapphire Ballroom First floor	09:00 to 17:00	9:30 to 11:00 : on Green Processes 11:30 to 13:00 : on Green Catalysts 14:00 to 15:30 : on Green Solvents 16:00 to 17:30 : on Green Engineering	Each Seminar expected to be attended by 70-80 Managers, senior representatives from R&D & Production	5
IGCW-ACS-GCI Pharmaceutical Roundtable Workshop	Crystal Ballroom I Ground Floor	09:30 to 17:00	Interactive Workshop on using Solvent & Reagent selection guide & GC&E tools	Chief representatives from R&D, R&T, Production, Operations, Plant & EHS.	8
IGCW-Workshop on Emerging Tools & Technologies	Seminar Hall First floor	11:30 to 17:00	TBA	Research scientists, Innovation centers, R&D Heads, etc.	4

IGCW-2017 Convention & Ecosystem Layout



Convention Center Floor Plan
First Floor



Emerald Ballroom

- Day I & Day II : IGCW-Sympo.
- Day I : IGCW-DST Award Evening

Seminar Hall

- Day I : IGCW-CSIR Industry Interactions
- Day II : IGCW-Workshop on Emerging Tools & Technologies

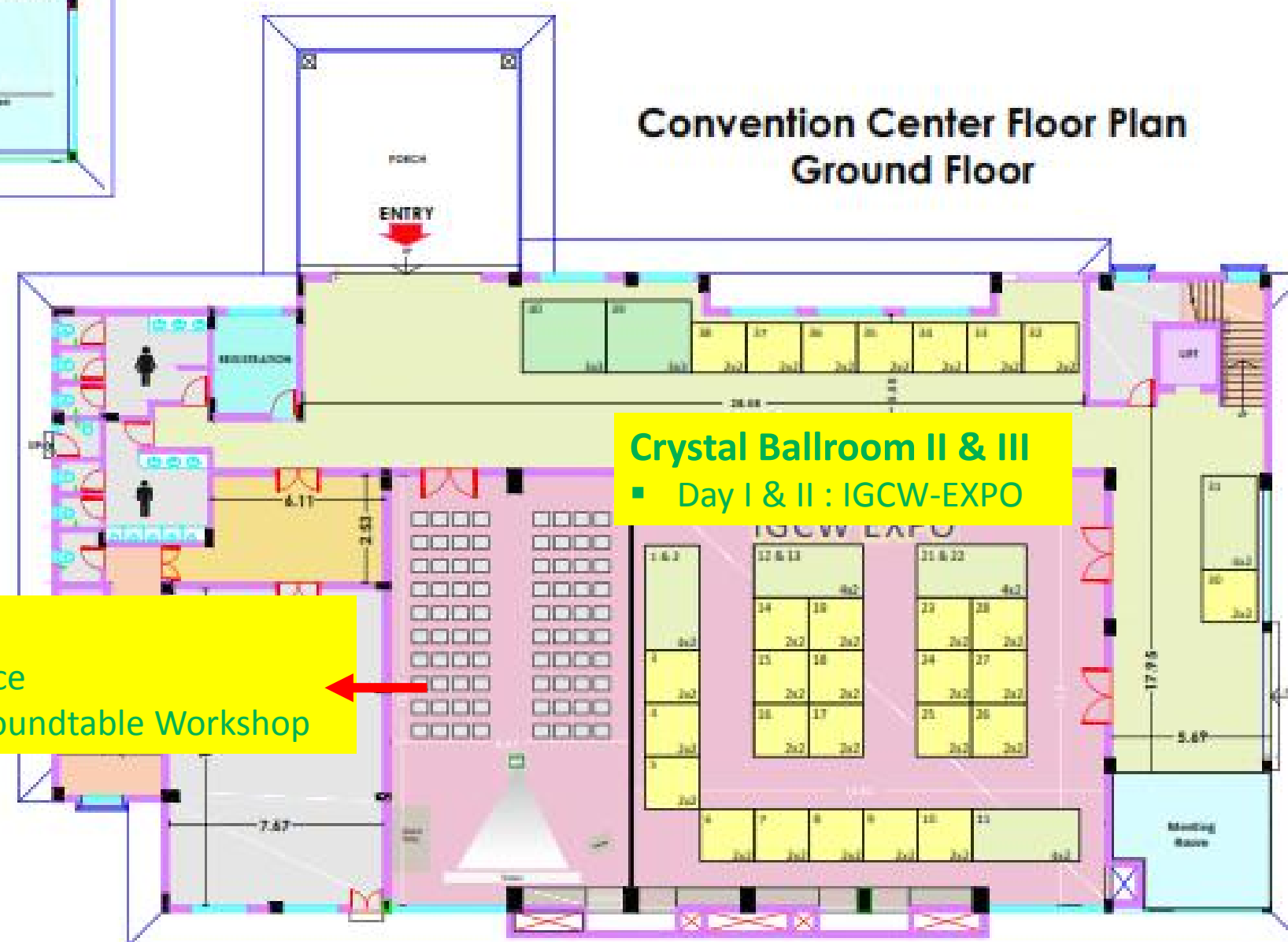
Sapphire Ballroom

- Day I : IGCW-PCB Conference
- Day II : IGCW 180° Seminars

Crystal Ballroom I

- Day I : IGCW-Flow Chemistry Conference
- Day II : IGCW-ACS-GCI Pharmaceutical Roundtable Workshop

Convention Center Floor Plan
Ground Floor



Crystal Ballroom II & III

- Day I & II : IGCW-EXPO