



The 3rd Industrial Green Chemistry World (IGCW-2013) Convention & Ecosystem was successfully concluded on 8th December 2013.

This three-day Convention is Asia's largest Industrial conglomeration that commenced on 6th December at Hotel Renaissance, Mumbai. IGCW is a collective and pro-active platform that brings together industry leaders and green chemistry and green engineering stalwarts on a common platform to engage in and explore emerging trends and technologies in this direction.

The IGCW-2013 once again facilitated a quality participation of over 250 senior decision makers and Technical Directors from some of leading Indian Chemical Companies participates in various capacities. To name few: Akzonobel, Asian Paints, AstraZeneca India Pvt Ltd, Bayer Vapi, Clariant India, Colourtex Industries Ltd., Dr. Reddys Laboratories Ltd., Elppe Chemicals Pvt. Ltd., Excel Industries Ltd., GNFC Ltd., Godavari Biorefineries Ltd., India, HiKal Ltd, Intersperse Industries, Jay Chemicals, Jubilant Lifesciences Ltd., Laurus Labs, Link Pharma Chem Ltd., Maharashtra Pollution Control Board, Merck Specialities Pvt. Ltd., Micro Inks Ltd., Vapi, Momentive Performance Materials (India) Pvt. Ltd., Nipur Chemicals Ltd., NOCIL Ltd., Novozymes, Phanicare Pharmaceuticals Pvt. Ltd., PI Industries Ltd., Pidilite Industries Ltd., Piramal Healthcare Ltd., Praj Industries, Punjab Pollution Control Board, R.L.Finechem, Rakshit Drugs Pvt. Ltd., Rasayani Biologics Pvt. Ltd., Reliance Technology Ltd, RPG Life Sciences Ltd., Solvay India R&D Centre, Sun Pharmaceuticals Industries Ltd., United Phosphorus Ltd, Wanbury, ZCL Chemicals Ltd.

The leading speakers who contributed to the deliberation includes Prof. M M Sharma, Padma Vibhushan FRS (Invited Chief Guest); Dr. R A Sheldon, Prof. Emeritus, Delft University of Technology, Netherlands & the Founder of the E-factor matrices; Prof. James Clark, Director, Green Chemistry Centre of Excellence, University of York, UK; Dr. Swaminathan Sivaram , CSIR Bhatnagar Fellow; Dr. Surendra Kulkarni, Research Director & Site Head, Sabic Technology Center; Dr. Martin Vollmer, CTO, Clariant International Ltd.; Dr. David Constable, Director, American Chemical Society- Green Chemistry Institute; Mr. Satish Khanna, Founder LAZORR; Mr. Ashwin Shroff, Chairman & MD Excel Industries Pvt. Ltd.; Mr. Samir Somaiya, MD, Godavari Biorefineries; etc.

The Convention also integrated live presentations by the Fathers of Green Chemistry & the Founders of Green Chemistry Principles- Prof. Paul Anastas & Dr. John Warner.

The IGCW-2013 lived up to its name of a 'Convention & Ecosystem' by facilitating multi-dimensional parallel events. Following are the series of events which took place across the three days, customizing specific green chemistry and engineering requirements of the participants:

- IGCW-2013 Symposium on a unique 9-i theme approach.
- 180o Seminars on focused topics such as the Green Process & Measurements, Green Catalysts, Green Solvents, & Green Engineering.
- One-day Conference on Green Chemistry for the Pharmaceuticals Industry organised in collaboration with the Dept. of Pharmaceuticals, Govt. of India
- One-day Conference on Green Chemistry Awareness exclusively for the State Pollution Control Board Officers.
- A half-day deliberation to accelerate Industry-Academia interaction and partnership
- Special events on industrial green chemistry for Teachers & Students

The key highlight of the IGCW Conventions is the IGCW-Exhibition- a tangible & pro-active business platform to connect the green chemistry and engineering based solution providers to its industry seekers participating in the convention in various capacities.

The IGCW-2013 brought together over 25 focused companies showcasing its products and technologies all of which has the potential to accelerate the implementation and industrialisation of green chemistry and engineering in the Indian Chemical Industry. The IGCW list of exhibitors as categorised in their respective domain expertise are as follows:

Green Processes: Geist Technologies Pvt. Ltd., Newreka Green Synth Technologies Pvt. Ltd.,

Green Catalysts: Advanced Enzymes Pvt. Ltd.,

Green Engineering: Bayer Technology Services, India; MicroInnova GmbH, Austria; Standard Engineers, India

Green Chemicals & additives: Green Erect, India; Odournet Holding India Pvt. Ltd. India

Green Solvents: Deven Supercriticals Pvt. Ltd.; Equinox Software & Services Pvt. Ltd.; Godavari Biorefineries Ltd.; TCI-Chemicals India Pvt. Ltd.; Zeon Corporation , Japan

Green Services: American Chemical Society- Green Chemistry Institute (ACS-GCI), USA, Chemistry in Nature, India, Green Center of Excellence for Industry, University of York; Green Chemistry Journal- Royal Society of Chemistry, UK; national Environmental Engineering Research Institute (NEERI)

IGCW Partners: Dr. Reddy's Laboratories Ltd.; Clariant India Pvt. Ltd.; Chemical Weekly; & Process India, Vogel Group.

The IGCW recognizes and felicitates commendable work established in this direction by various industry and non-industry groups. The Academia and Students shortlisted Award nominees also get an opportunity to attend the full IGCW Convention including their travel and accommodation being taken care by the IGCW Organisers.

The IGCW-2013 Green Innovations Award Winners are:

- MNC Category: Dr. Reddy's Laboratories Ltd.
- SME Category: Dr. Taher Dakorwala, Gharda Institute of Research & Technology
- Most Promising Technology: Equinox Software Solutions Pvt. Ltd.
- Academia Category: Dr. Prabhavathi Devi B L A, Indian Institute of Chemical Technology (IICT), Hyderabad
- Students Category: Ms. Sujata Pramanik - University of Tezpur, Assam

The IGCW-2013 wouldn't have been possible without the generous support from its Industry, Media, and Associate Partners:

Green Engineering Partner: Dr. Reddy's Laboratories and the United Phosphorus Ltd.

IGCW Green Innovations Awards Partner: PI Industries Ltd.

Recycle Partner: Dept. of Chemicals & Petrochemicals, Excel Industries Ltd. & Reliance Industries Ltd.

Pharma. Conference Support Partner: AstraZeneca India Pvt. Ltd.; Dept. of Pharmaceuticals

Pollution Control Board Conference Support Partner: Clariant Chemicals India Ltd

Knowledge Partner: TATA Strategic Management Group; & KnowGenix

Associate Partners: American Chemical Society- Green Chemistry Institute, Indian Chemical Council (ICC); & Organisation of Pharmaceutical Producers of India (OPPI)

Media Partners: Chemical Weekly, Process India (Vogel Group), Specialty Chemicals Magazine, Green Chemistry Journal-Royal Society of Chemistry, CHEManager Europe, Express Pharma, Chemical Watch, World of Chemicals, Ecochem,

Few comments from IGCW-2013 participants:

Congratulations for the success of IGCW-2013.

Rajeev M Pandia

I thank you for the opportunity provided to me a part of IGCW 2013. The event was well organized and I found the audience participation active and frequent.

I must compliment you for this effort, in bringing sustainable chemistry to the top agenda of corporates, academia and government. It is a very laudable objective and all your colleagues deserve a big round of applause. Since this is largely a private sector event, the efforts deserve even more appreciation.

I wish you and your organization all success.

Dr. Swaminathan Sivaram, CSIR Bhatnagar Fellow

Thanks for a wonderful high quality and well executed summit! It was a great learning experience.

Dr. R Rajagopal, CCO, KnowGenix

Let me congratulate you for the successful completion of the Conference. It was really a good sessions I and my other team members had during the Conference.

Pramod Natuvelty, Manager – Systems and Regulatory Affairs, AkzoNobel India Limited R & T Centre

ICGW-2013 was a great success. It enticed people to Practice Green Chemistry. I personally learned a lot about recent trends in this area and got connected meaningfully with stalwarts of Green Chemistry practitioners.

Dr . Rakeshwar Bandichhor, Director API-R&D, Dr. Reddy's Laboratories Ltd.

Thank you very much for giving me the opportunity to participate in the outstanding conference. Without your follow-up, I would have missed this opportunity.

Dr. Surendra Kulkarni, Research Director & Site Head, Sabic Technology Center, India

Many thanks for your cooperation at the IGCW. We enjoyed a successful convention there.

Shunji Sakamoto, ZEON CORPORATION Specialty Chemicals Division



care of :



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3rd Industrial Green Chemistry World (IGCW-2013) Convention & Ecosystem, 6 – 8 Dec. 2013, Mumbai



Inauguration by Prof. M M Sharma & other distinguished stalwarts from Industry & Academia across the globe.



Welcome by IGCW Convener – Mr. Nitesh Mehta, Founder Director, Green ChemisTree Foundation.



Keynote Presentations by Prof. M M Sharma, Padma Vibhushan FRS; & Prof. Paul Anastas, Founder of 12 Principles of Green Chemistry & Green Engineering



Panel discussion on "Why integrate green chemistry as a strategy for the sustenance of chemical businesses?"

IGCW-2013 Symposium Day I, 6th Dec; Themes: Ignition, Inspiration & Initiation



Mr. Satish Khanna, MD, Founder LAZORR, Ex-Lupin



Mr. Rafael Cayuela, Author of the book- Future of the chemical Industry by 2050;



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



Mr. Ashwin Shroff, Chairman & MD, Excel Industries Ltd



Dr. Martin Vollmer, CTO, Clariant International



Mr. Samir Somaiya, Chairman & MD, Godavari Biorefineries Ltd.,

IGCW-2013 Symposium Day II, 7th Dec; Themes: Identification, Invention & Innovation



Keynote by Prof. James Clark, Director, Green Chemistry Centre of Excellence, Univ. of York, UK



Dr. R Rajagopal, CCO, KnowGenix



Dr. Jeff Eaves, Industry Manager, Green Chemistry Centre of Excellence, Univ. of York, UK



Dr. Swaminathan Sivaram, CSIR Bhatnagar Fellow & Former Director National Chemicals' Laboratory (NCL),



Dr. Roger Sheldon, Delft University & CEO, CLEA Technologies Ltd; & inventor of the E-factor matrices



Dr. Surendra Kulkarni, Research Director & Site Head, Sabc Technology Center,



Panel Discussion on Identifying research priorities in the domain of industrial green chemistry and engineering practices

IGCW-2013 Symposium Day III, 8th Dec; Themes: Implementation, Industrialization & Impact



Keynote by Dr. David Constable, Director-American Chemical Society- Green Chemistry Institute, Washington DC,



Panel Discussion on Challenges of industrialization and implementation of green chemistry & engineering technologies



Dr. Sanjay Jain, Director, Geist Research Pvt. Ltd.



Dr. S. Vijaykumar, VP, Process Engineering Head - IPDO, Dr. Reddy's Labs Ltd.



Mr. Nitesh Mehta, Founder Director, Newreka Green Synth Technologies Pvt. Ltd.



Dr. Rangaprasad, Director, SIES School of Packaging & Packaging Technology Center,



Mr. Ashish Dagade, GM- Environment, United Phosphorus Ltd.

IGCW-2013 Exhibition, 6-8 Dec 2013, Mumbai



Exhibition Inauguration by Prof. M M Sharma & Dr. Martin Vollmer, CTO, Clariant International



Over 25 companies showcasing its products & technologies on green chemistry and engineering

TATA Strategic Management Group, Report Release on 6th Dec at IGCW-2013



Report release by Dignitaries & Overview presentation by Mr. Charu Kapoor, Engagement Manager, TATA SMG

IGCW-2013 Green Innovation Awards Felicitation, 6th Dec. Mumbai



MNC Category: Dr. Reddy's Laboratories Pvt. Ltd.



SME Category: Gharda Institute of Research & Technology



Most Promising Technology: Equinox Software Solutions Pvt. Ltd.



Academia Category: Centre for Lipid Research, CSIR- Indian Institute of Chemical Technology (IICT), Hyderabad



Students Category: Ms. Sujata Pramanik – University of Tezpur, Assam



Special Recognition:
 - Dr. David Constable, Director ACS-Green Chemistry Institute
 - Prof. James Clark, Director, Green Chemistry Centre of Excellence, University of York, UK

IGCW-2013 Industrial networking, visiting EXPO & Technical interactions with green chemistry experts



180° Seminars, 6th 7th & 8th Dec. Mumbai



Seminar on Green Process & Measurements



Seminar on Green Catalysts



Seminar on Green Solvents c



Seminar on Green Engineering



Parallel Conferences in IGCW-2013 Ecosystem



One-day Green Chemistry Conference for Pharma. Industry, 6th Dec. Mumbai



One-day Green Chemistry Conference for State Pollution Control Board Officers, 7th Dec. Mumbai

Parallel Workshops for Students & Teachers in IGCW-2013 Ecosystem

