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REINHARD CONRADT ELECTED AS NEW ICG PRESIDENT



The Council of the International Commission on Glass (ICG) has elected Dr. Reinhard Conrardt - former Professor and Chair of Glass and Ceramic Composites of RWTH Aachen University - as new president of the ICG for the period 2021-2024 during its hybrid meeting on 2nd December in Frankfurt, Germany.

The International Commission on Glass (ICG) is a non-profit international association of national scientific and technical organizations with members bringing together the world's most respected institutions, universities, companies and allied organizations operating in the field of glass, whose main objective is to promote understanding and stimulate cooperation in the field of glass science and technology, as well as glass history and art. Founded in 1933, the ICG has reached 88 years in 2021; currently has representation

from 32 countries on all continents. Its activity focuses on various topics, including education, the promotion of young people, and a structure of 24

Technical Committees, which bring together more than 600 experts in all branches of glass science and technology, www.icglass.org

INTERNATIONAL YEAR OF GLASS (IYOG 2022) ADVERTISED AT IRAN NATIONAL DRAGON BOAT CHAMPIONSHIP

Both Women and Men's teams advertised IYOG 2022 by wearing smart jerseys at the Iran National Dragon Boat Championship organized by Iran Canoe Federation at Bushehr Port in South of Iran in Nov 2021.

This competition also helped to select Iran's national team.

Tehran Dragon Boat teams (both women and men) won Gold Medals out of 24 participating teams.

Similar announcements would be made during Iran Dragon Boat Premier League to be organised by Iran Canoe Federation at Tehran Stadium Lake in March 2022.



Germany has been participating in the ICG since its founding, right from the start represented by the then young German Society of Glass Technology (DGG, founded 1922). DGG was among the core founding bodies of ICG, together with the national societies from Belgium, France, Italy, Spain, the United Kingdom, and the United States. In fact, the idea to form an association like ICG already emerged at an international conference 1928 in Aachen, Germany, jointly organized by the Society of Glass Technology (SGT, U.K.) and DGG, bringing together the protagonists of the above societies.

Dr. Conradt holds a PhD in Physical Chemistry (1981) and a Habilitation (1996) with *venia legend* in Glass Science and Technology. After his PhD at Aachen University, he became involved with the topic of glass for the first time, performing industry related research at Fraunhofer Institute of Silicate Science (ISC) Würzburg, Germany, for 6 years. Then, he served for 10 years as lecturer and industry consultant in an emerging market of Asia (Thailand). From 1997 to 2016, he was full professor and Chair of Glass & Ceramic Composites at RWTH Aachen University, Germany. His work has been committed to building bridges between science, especially chemistry, thermodynamics and kinetics, and industrial engineering. From 2015 to 2020, he served as President of DGG.

His relationship to ICG goes back to the XIII. ICG Congress 1983 in Hamburg. He has been a

member of the Technical Committee 23 (TC23) of Education for more than 20 years, chairing TC23 from 2007 to 2016 and serving within the core team of ICG Montpellier Summer School, ICG Wuhan Winter School, and ICG Kolkata Glass Tutorial. Beyond this, he was part of the core team of TC18 (Properties of glass forming melts) for several years.

The new President of ICG said *“Taking over the presidency from Prof. Alicia Duran with her outstanding achievements, especially with respect to establishing the UN International Year of Glass 2022, means maneuvering within the wake of a big ship. One important task will consist in facilitating and consolidating the organizational transition of ICG, especially the expansion from an association of national participating organizations to a society with individual membership. The promotion of educational activities as well as a constant support for the initiative of Young Scientists and Technologists will remain a major focus. Special attention will be paid to the reinforcement and promotion of the activities of the Technical Committees, understood as the backbone of the ICG. Here, a joint effort of TCs directed towards the challenges of the climate issue shall*

be implemented. ICG offers an ideal structure and a very wide basis to deal with these challenges, in specific, with the many precompetitive topics related to this issue”.

PASSING AWAY OF B L KHERUKA

Chairman Emeritus of Borosil Group, Mr. B. L. Kheruka departed for the heavenly abode on Dec 12, 2021.



Mr. B L Kheruka's contribution to the glass industry in India and beyond over many decades cannot be overstated.

Mr. B L Kheruka was the winner of



Prayer meeting held in remembrance of Mr. B L Kheruka at ALOFT New Delhi on December 23.

the prestigious 'CK Somany Award for Innovation and Technology (2019)'.

Mr. Kheruka was remembered at the Container Glass Promotion meeting at ALOFT New Delhi on Dec 23 and at the virtual Ex Com Meeting held on Jan 15.



IYOG CALENDAR GLASS BOTTLE 2022 PRESENTED TO ALOFT HOTEL NEW DELHI

Parallel to the Glass promotion meeting, IYOG Calendar Glass Bottle 2022 was presented to Mr. Pranav Bharadwaj, Director Sales at ALOFT New Delhi on Dec 23 to promote green packaging.

Sept 10, 2021 Chief Guest Dr. Reinhard Conradt, Vice President and President Elect of the International Commission on Glass unveiled a touring exhibition on 'Glass in our Lives' at the virtual Annual

packaging material.

As part of an educative process, Wall and Desk versions of the calendars were distributed to AIGMF Members/ Regional Associations, Stakeholders:



RELEASE OF AIGMF 2022 PRINT CALENDAR ON THE THEME 'GLASS IN OUR LIVES'

President Mr. Bharat Somany, Office Bearers and Former Presidents released AIGMF 2022 print calendar on the theme 'Glass in our Lives' at the Glass promotion meeting held at ALOFT New Delhi on Dec 23.

To commemorate International Youth Day, The All India Glass Manufacturers' Federation (AIGMF) invited online entries from the age group between 7-24 years to participate in the '1st Photography Contest on the theme "Glass in our Lives" wherein 7,000 entries were received from educational institutes and Youth across India. On

General Meeting of The All India Glass Manufacturers' Federation (AIGMF).

Top 3 three winners were given cash prizes. Later, the entire project was converted into the 2022 Calendar by covering few best shots.

As the National Apex Body of the Glass Industry, the AIGMF undertakes socially responsible steps as a voluntary service to society, thereby bringing increased awareness of Glass being a safe and 100% recyclable

Glass in our Lives
GLASS 2022

Chief Guest Dr. Reinhard Conradt, Vice President and President Elect of the International Commission on Glass unveiled a touring exhibition on 'Glass in our Lives' at the virtual Annual General Meeting of The All India Glass Manufacturers' Federation (AIGMF) held on Sept. 10, 2021.

Online entries were invited from the age group between 7-24 years to participate in the 1st Photography Contest. A kickstart event to mark the International Year of Glass 2022 activities in India wherein over 7000 entries were received from Educational Institutes and Youth across India.

The roadshow will travel to other cities showcasing the vital role of Glass, being the only 100% recyclable packaging and building material. A digitized version of the exhibits may be viewed at: www.aigmf.com

About the AIGMF:
 The All India Glass Manufacturers' Federation (AIGMF) is a not-for-profit National Apex Body of the Indian Glass Industry, representing all segments and sectors. AIGMF undertakes socially responsible steps as a voluntary service to society, thereby bringing increased awareness of Glass.

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Soft copy of the calendar is available at www.aigmf.com

TURKEY'S SISECAM TO BUY 60% OF U.S. BASED SODA ASH FACILITY FOR \$450 MILLION

In a statement, Siseecam said it would buy a 60% stake in Ciner Resources Corporation. The entity holds a 74% interest in Ciner Resources LP, which in turn holds 51% in Ciner Wyoming USA, a fully operational natural soda ash production facility with 2.5 million tons per year capacity.

Siseecam and Ciner Group, which are joint venture production partners in the natural soda ash business, will invest about \$4 billion in total in the United States, the statement said.

With the move, Siseecam-controlled soda ash production capacity will

quadruple to 10 million metric tonnes, compared to existing capacity of 2.5 million.

Siseecam said the investment would include the establishment of the largest soda ash production facility in a single location and make the company the largest natural soda ash producer in the United States.

SCHOTT GLASS RESPONSIBLE FOR ALMOST 90% OF COVID-19 VACCINE PACKAGING IN INDIA

Leading German specialty glass maker SCHOTT Glass India has announced an additional investment of 70 million euros to expand its Gujarat tubing plant that already makes FIOLEX glass used in Covid-19 vaccine packaging in India.

According to the company, almost 90 per cent of Covid-19 vaccines in India are packed in glass tubing made by SCHOTT at its plant in Jambusar, Gujarat. In the wake of German Ambassador to India HE Walter J Lindner's visit to the plant, SCHOTT Glass India's Managing

Director Mr. Pawan Shukla reiterated the announcement of an additional investment of 70 million euros in the plant, following several million in investments over the last few years.

"It (the German Ambassador's visit) gave us an opportunity to showcase a successful example of know-how and transfer of technology (TOT) from Germany to India. We have recently announced an investment of 70 million euros in the site to set up additional glass melting tanks and ensure adequate supply to the Indian pharma industry as well as neighbouring countries," said Mr. Shukla

The tubing plant in Gujarat is the Asian manufacturing hub of high-quality pharma glass tubing. It has also been a frontrunner in the fight against Covid-19 and provided pharmaceutical glass for primary packaging to fill billions of Covid-19 vaccines worldwide. In India, almost all approved vaccines are packed in FIOLEX glass made by SCHOTT, which has been the gold standard for pharmaceutical packaging for more than a century.

PROUD USERS OF IYOG 2022 CALENDAR GLASS BOTTLE – A GLIMPSE



Mr. Nirmal Mundra, Affiliate Member of AIGMF presenting bottle to Mr. J P Agarwal Operations Director (COO) M/s Frigo Glass Industries Ltd., NIGERIA



Mr. Shashi Kant Former Deputy Adviser, Planning Commission and Confederation of Construction Products and Services (CCPS)



Mr. Nirmal Mundra, Affiliate Member of AIGMF presenting bottle to Mr. Antar Singh Nehra, District Collector of Jaipur

According to SCHOTT, the material is best suited for vaccines and life-saving medications, as it avoids the interactions between containers and the drug formulation that can limit its effectiveness.

Post his visit, German Ambassador to India Mr. Walter J. Lindner said that any vaccination program across the globe would've been very difficult without SCHOTT glass.

"In fact, not many people know that SCHOTT glass is responsible for almost 90 per cent of Covid-19 vaccine packaging in India. I want to congratulate the SCHOTT team here as they promote a product that is German high quality and produced in India," he added.

Earlier this year in August, Serum Institute of India (SII), the world's largest vaccine producer and manufacturer of highly effective biologics, has bought the 50% stake in the Indian joint venture SCHOTT Kaisha from former co-owners Mr. Kairus Dadachanji and Mr. Shapoor Mistry. The joint venture is the leading Indian manufacturer of pharma packaging products such as vials, syringes, ampoules, and cartridges used to package life-saving medications.

SORG, EME AND GRENZEBACH WORK TOGETHER TO PROVIDE SOLUTIONS TO THE INDIAN MARKET

German businesses SORG, EME and Grenzebach have teamed up to supply the Indian glass manufacturer Triveni Renewables Pvt. Ltd., with some of the industry's best technologies and solutions. In India, Triveni is building a manufacturing plant with a melting capacity of 240 TPD. The construction will help the company take advantage of the growing Indian solar glass market through its subsid-

itary, Triveni Renewables Pvt. Ltd.

The glass maker's choice is meant to fulfil Triveni's desire to have a highly efficient, environmentally friendly factory that can offer high-quality solar glasses.

EME will provide Triveni with a batch plant and cullet return system, while SORG is responsible for the melting furnace. Grenzebach will deliver the annealing Lehr and the cutting line.

Triveni's decision to commission a SORG melting furnace is based on SORG's extensive experience in the solar and figured glass industry. It also highlights the benefits of the long-term partnership between SORG and Grenzebach to provide glassmakers worldwide with the best equipment for flat glass production.

In a statement, SORG said that *"they have been closely working with Grenzebach in the flat glass sector for a long time. Together, we can jointly provide a complete technological line for flat glass production. The partnership allows customers to benefit from the technological leadership of both companies."*

Mascot Engineering Company represents SORG and EME in India.



TRIVENI
RENEWABLES PVT LTD.

Triveni's new solar plant is expected to go into production from the third quarter of 2022-23.

TOWARDS A CLIMATE-NEUTRAL FUTURE WITH GLASS

The innovative capacity of the glass industry was highlighted once again by experts from the most diverse areas

during the 2-day glasstec UPDATE International Conference. They explored in depth the ways the sector can contribute to a climate-neutral future along the entire value chain without losing its competitiveness.



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"It was exciting to witness how in-depth and robustly industry and planners debated the potential of glass and the contribution it can make to a climate-neutral future at this Conference. There is huge potential for the ideas, visions and solutions that are being pursued, which can also be experienced live at glasstec 2022," says Professor Ulrich Knaack of the Institute for Structural Design and Engineering at the Technical University of Darmstadt.

Even today the glass industry no longer solely focuses on optimizing energy efficiency. The sector is also working intensely on switching to alternative energy sources so as to reduce CO₂ emissions. At present, three technologies are in focus here: full electrification with green power, the construction of hybrid glass melting furnaces that are fired with electricity and natural gas and/or hydrogen later on, as well as the use of renewable gases such as hydrogen or biogenic gases. However, there is still a tremendous need for research and development work to be done in order to scale up existing technologies to the required level.

"The journey to a CO₂-neutral glass industry has already begun and is irreversible. Now we have to come up with short-term solutions to cut current CO₂ emissions with such innovative

products as lighter double and triple glazing units but also concrete savings in manufacturing by optimizing existing lines. In the medium term, completely new technologies will have to be developed to ensure CO₂-neutral glass production. We are already working hard on all three dimensions,” says Mr. Martin Stadler, Sales & Marketing Director, Saint-Gobain Glass Deutschland GmbH.

Experts agree: a holistic approach is needed to achieve long-term decarbonization targets. For this purpose, they say, the glass industry needs political support to shape the transformation process in such a way that its competitiveness is maintained. “The glass industry faces up to the challenges of the future and does intensive research into the conversion of its processes,” says Dr. Johann Overath, Director General of the Federal Association of the German Glass Industry (Bundesverband Glasindustrie e.V.), “but it also depends on policy-makers to create the necessary infrastructure and framework for change. This includes, above all, low energy prices and subsidies, the so-called Carbon Contracts for Difference, with the aim of also staying competitive after the switch to renewable energy sources.” Add to this other relevant factor such as the recyclability and up cyclability of products as well as logistics issues that can also contribute to CO₂ reduction.

Architects and planners also shared their visions on climate-neutral buildings, energy-efficient buildings and urban life of the future without losing focus on a healthy and liveable environment.

Mr. Stefan Kieckhöfel, Director General of the Federal Association of Glazier Trades and member of the programme advisory body, also sees a duty for the skilled trades: “Some

14% of all CO₂ emissions in Germany are accounted for by the building sector. However, the emissions produced by power generation and distance heating or by building materials are not factored in here but allocated to the energy sector and the industry. Nevertheless, we consider it one of our most urgent tasks to intensely cooperate in the energy-efficient refurbishment of buildings by proactively approaching end users and building sponsors in a consulting capacity. There is still an enormous pent-up demand for energy-efficient refurbishment of existing window stock.”

The mega trends decarbonization and CO₂-neutrality will also be in focus at glasstec 2022, from 20 to 23 September.

At the concurrently held “decarbXpo” (www.decarbXpo.de) technology and service providers will showcase solutions and services for decarbonizing industry and commerce.

KAISHA PACKAGING ACHIEVES RECORD OF SUPPLYING SEALS FOR 2 BILLION DOSES OF COVID VACCINES GLOBALLY

Leading pharma-packaging firm, KAISHA Packaging, has accomplished new heights in the fight against COVID-19. The company has successfully provided over 2 billion doses worth of flip-top aluminium seals used for packaging COVID vaccines. The seal is used as closures for injection vials during the vaccination drive and is as such an essential part of the vaccine package ensuring tamper-proof delivery. This is especially relevant for fulfilling India and the world’s current vaccination drive, especially given the need for successive booster doses considering

the ever-changing nature of COVID.

KAISHA Packaging has been a constant and biggest supplier for these seals to all the vaccines available in the Indian market and abroad. To ensure a consistent supply of vaccines and plug any shortages or gaps, the company managed to arrange and stock an extremely large volume of raw material. Not only did KAISHA Packaging successfully manage this challenge, it also expanded its capacity by over 450 million pieces to reach the overall capacity of 1.2 billion pieces per annum over the past year, which was unprecedented.

Mr. Rishad Dadachanji, Director, KAISHA Group of Companies, shared, “This is a testimonial of our commitment to support India’s vaccine drive and developers with the best packaging solutions. As a pharma allied sector company, we have worked hard to ensure no gaps remain in our supply chain to ensure a consistent supply of vaccine seals. We are proud to have provided seals for over 2 billion vaccine doses so far. Under the current circumstances of ambiguity around the COVID pandemic, Kaisha is well-prepared to rise up to any supply challenges.”

KAISHA packaging was established as a premium manufacturer of pharmaceutical closure systems for vials in 2003. The company has since revolutionized the way that aluminium seals are manufactured in India.

The company is part of the larger (Dadachanji Group), headquartered in Mumbai, India. It is a diversified group with business interests that include Pharmaceuticals and Biotechnology, Primary and Secondary Packaging, Medical Devices, Machine Building, Automation and Robotics. The group previously also owned a part of the Indo-German Venture SCHOTT-Kaisha, which is the largest supplier of vaccine vials in the country.



THE ALL INDIA GLASS MANUFACTURERS' FEDERATION



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KEY HIGHLIGHTS OF UNION BUDGET OF INDIA 2022-23

The Union Minister for Finance & Corporate Affairs, Ms. Nirmala Sitharaman presented the Union Budget 2022-23 in Parliament on Feb 1. Following are the key highlights:

- National Master Plan aimed at world class modern infrastructure and logistics synergy
- Formulation of Master Plan for expressways. Completing 25000 km national highways in 2022-23
- 4 Multimodal Logistics parks through PPP to be awarded in 2022-23
- Integration of Postal and Railways Network facilitating parcel movement
- 400 new generation Vande Bharat Trains
- Launching fund with blended capital to finance agriculture start ups
- Virtual labs and skilling e-labs to promote critical thinking skills and stimulated learning environment
- A Digital University will be established with world class quality universal education
- Digital Ecosystem for Skilling and Livelihood (DESH-Stack e-portal) will be launched to promote online training
- 3.8 crore households to be covered in 2022-23. 80 lakh houses to be completed in 2022-23
- 100% of post offices to come on the core banking system
- Scheduled Commercial Banks to set up 75 Digital Banking units in 75 districts
- Raising and Accelerating MSME Performance (RAMP) programme will be rolled out
- E-Passport with embedded chips to be rolled out in 2022-23
- Modernization of building byelaws, implementing Town Planning Schemes and Transit Oriented Development
- Introduction of Digital Rupee by RBI starting 2022-23
- Measures to aid investment by Venture Capital and Private Equity Investment
- Allowing taxpayers to file Updated Return within 2 years for correcting errors
- Reducing Alternate Minimum Tax Rate and Surcharge for Cooperatives
- Income from transfer of virtual assets to be taxed at 30%
- Better litigation management to avoid repetitive appeals
- Any Surcharge or Cess on Income and Profits not allowable as business expenditure
- Phasing out concessional rates in capital goods and project imports gradually and apply a moderate tariff of 7.5%
- Review of customs exemptions and tariff simplification
- Customs duty rates are being calibrated to provide a graded rate structure to facilitate domestic electronics manufacturing
- Unblended fuel shall attract additional differential excise duty

भारत सरकार का केंद्रीय बजट: 2022-23

केन्द्रीय वित्त मंत्री श्रीमती निर्मला सीतारमण ने संसद में वित्त वर्ष 2022-23 का केंद्रीय बजट पेश किया। प्रमुख योजनाएँ इस प्रकार हैं:

- एक्सप्रेस वे के लिए मास्टर प्लान तैयार करना, 2022-23 में 25000 किलोमीटर राष्ट्रीय राजमार्गों का काम पूरा करना।

- ऑनलाईन ट्रेनिंग को बढ़ावा देने के कौशल एवं आजीविका हेतु डिजीटल इको सिस्टम (Desh Stack e-portal)।
- पीएम आवास योजना - 2022-23 में 80 लाख घरों का निर्माण कार्य पूरा किया जाना है।
- डिजीटल पेमेंट्स-अनुसूचित वाणिज्यिक बैंको के द्वारा 75 जिलों में 75 डिजीटल बैंकिंग यूनिट्स की स्थापना।
- एमएसएमई के कामकाज को बढ़ाना और इसमें तेजी लाना (आरएएमपी) कार्यक्रम को अभी लागू किया जाना है।
- आईटी सेतुओं के माध्यम से केन्द्र एवं राज्य स्तरीय प्रणालियों का समेकन।
- 2022-23 में निजी निवेश और मांग को बनाये रखने के लिए सार्वजनिक निवेश।
- 2022-23 से आरबीआई के द्वारा डिजीटल रुपये के संचलन।
- हरित अवसंरचना के लिए संसाधनों को जुटाने हेतु ग्रीन बॉण्ड्स।
- डाटा सेंटर और इनर्जी स्टोरेज सिस्टम्स के लिए अवसंरचनात्मक स्थिति।
- उद्यम पूंजी और निजी इक्विटी निवेश के द्वारा निवेश में सहायतापूरक उपाय।
- गलतियों को ठीक करने के लिए करदाताओं को 2 वर्ष के भीतर अद्यतन रिटर्न दायर कर सकने की अनुमति देना।
- कर संबंधित प्रोत्साहन देने के लिए पात्र स्टार्टसअप को शामिल करने की अवधि का बढ़ाना।
- बार-बार की अपीलों से निजात पाने के लिए मुकदमेबाजी का बेहतर प्रबंधन।
- अनब्लैडिड ईंधन पर अतिरिक्त विचलन उत्पाद शुल्क लगाया जाएगा।

(News Source: AIGMF Research Team /
World Wide Web)



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'Glass Protects' ... says School Children ...



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10th class student, SERS Public School, (District Kamrup), Assam

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