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PROF. BIKRAMJIT BASU APPOINTED AS DIRECTOR CSIR-CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE

Prof. Bikramjit Basu took over as Director, CSIR-CGCRI on Nov 8, 2024. Prior to that, he was a Professor at the Materials Research Center, since May 2011 and held Associate Faculty at the Interdisciplinary Center for Energy Research, Indian Institute of Science (IISc), Bangalore. After his undergraduate and postgraduate degree in Metallurgical Engineering from NIT Durgapur and IISc respectively, he earned his PhD in the area of Engineering Ceramics at Katholieke Universiteit Leuven, Belgium in March 2001. Following a brief postdoctoral stint at the University of California, Santa Barbara; he served as a faculty of Indian Institute of Technology Kanpur during 2001-2011.

He has been pursuing research at the confluence of Ceramic Science, Biomaterials, Additive Manufacturing (binderjetting laser/electron beam/extrusion-based 3D printing), Biological Science, and Medicine, to address many unanswered questions related to renewable energy and regenerative engineering. In the field of healthcare, his research group has effectively applied the principles and tools of these disciplines to develop next-generation implants and bioengineering solutions to address unmet clinical needs for musculoskeletal, dental, and neurosurgical applications; thereby impacting human healthcare.

His research group has developed technologies related to the manufacturing of bioceramics,



acetabular liners, customized bone flaps for cranioplasty surgeries, dental implants and variants of 3D bioprintable hydrogels. These technologies are transferred to multinational corporations or start-ups, and many of the products, after regulatory clearances, are currently used for patient care in India. His 250+ peer-reviewed research articles are cited more than 19,000 times with an H-index of 73 (Google Scholar).

A Chartered Engineer of the UK, he has the unique distinction of being the only ceramic scientist from India to get elected to all the major international ceramic societies and academies, including the World Academy of Ceramics (2024), the European Ceramic Society (2023), the American Ceramic Society (2019). In India, he is an elected Fellow of all the

National Academies of Engineering, Science and Medicine, including the Indian National Science Academy (2021), Indian Academy of Sciences (2020), National Academy of Medical Sciences (2017), Indian National Academy of Engineering (2015), and National Academy of Sciences, India (2013). Internationally, he is an elected fellow of the International Union of Societies for Biomaterials Science and Engineering (2020), International Academy of Medical and Biological Engineering (2017) and the American Institute of Medical and Biological Engineering (2015). He is a recipient of India's most prestigious Science and Technology award, Shanti Swarup Bhatnagar Prize (2013) from the Prime Minister of India; and globally competent awards, like Humboldt Research Award from the Alexander von Humboldt foundation (2022), and International Richard Brook Award from the European Ceramic Society (2022).

GLOBAL FLAT GLASS GIANT AGC INC. JOINS GLASS FUTURES

The AGC Group have taken another significant step towards sustainable glass production by becoming



Dr. Terutaka Maehara (centre) of AGC with Glass Futures' Mr. Dave Fordham, Mr. Rob Ireson, Mr. Steve Cook and Mr. Aston Fuller

members of Glass Futures. AGC produces many products that play an essential role in maintaining the global environment and supporting society.

AGC Inc. is one of the world leaders in flat glass, producing, processing and distributing glass for the building and automotive industries, solar and high-tech sectors, as well as electronics, chemicals, life science, ceramics, and other products.

Glass has a positive impact on people and the planet. As a truly sustainable material, it is at the heart of sustainable architecture, and AGC has stated a commitment to being at the forefront in developing new glass products with better environmental performance.

To achieve CO₂-neutral glass production by 2050, all parts of the value chain need to be taken into consideration. The international glass producer became members of Glass Futures to collaborate with its membership network across the entire glass supply chain towards a sustainable future.

Glass Futures is a not-for-profit research and technology organisation with a Global Centre of Excellence facility in St. Helens, part of the Liverpool City Region, which allows the glass and foundation industries to trial and demonstrate disruptive technologies and generate ideas that will support industry to decarbonise and become more sustainable, faster.

Mr. Dave Fordham, Global Engagement Lead at Glass Futures said: “We were pleased to welcome members of AGC’s innovation team from Japan and Belgium to our pilot facility where we’re currently installing an industrial scale 30 tonnes per day pilot furnace to explore the technical foundations for achieving carbon neutral glass melting. We’re delighted the global glass giant has joined our growing network of members to help the industry achieve its sustainability goals.”

Dr. Terutaka Maehara, Leader of

the Hot Process team at the AGC Innovative Technology Laboratories in Yokohama, JAPAN said: “AGC’s glass business encompasses a wide range of products, including flat glass, display glass, and specialty glass, with manufacturing sites located around the world. Therefore, the requirements for achieving carbon neutrality vary depending on each business segment and each production site, necessitating the development and focus on various technologies. We believe that joining Glass Futures will be meaningful for this purpose.”

AGC join fellow glassmaking members of Glass Futures including Ardagh, Arc, Bormioli Pharma, Corning, Encirc (founder member), Guardian (founder member), Knauf, NSG Pilkington, O-I (founder member), Stoelzle and Verallia, as well as leading brands such as Diageo, Heineken, Siemens (founder member) and Velux, plus many more technology suppliers, associations, academia and leading users of glass.

GEA SUPPLIES TWO WASTE HEAT RECOVERY PLANTS TO ASAHI INDIA GLASS

GEA is supporting the sustainability strategy of Asahi India Glass Limited (AIS) with the supply of two waste heat recovery (WHR) systems. Asahi India Glass is India’s leading end-to-end glass and window solutions company in both the automotive and construction sectors. AIS is implementing an advanced waste heat recovery system from GEA at its two glass manufacturing units – at the greenfield float glass plant in Soniyana, Rajasthan, and at the existing installation in Roorkee, Uttarakhand to have 1.8 MWe capacity for each plant. By utilizing the waste gases from the furnace and converting the

heat transferred from the waste gases into electrical energy, each plant will generate approximately 15,500 MWe per year, resulting in an annual reduction in carbon emissions of approximately 13,000 tons per plant.

Another highlight of the green field project in the Rajasthan is, it will be utilizing 94% of required power through WHR.

GEA waste heat recovery plants are state-of-the-art systems that utilize the waste heat generated during glass production and convert it into clean and green energy. This results in a lower environmental impact as well as greater operational efficiency and energy independence for AIS plant operations. AIS chose to partner with GEA because it needed a plant that would operate at optimal standards and performance parameters for its class. Thanks to GEA’s process



GEA supports its customers with extensive expertise and experience in waste heat recovery in the treatment of process gases. Numerous plants have already been equipped and retrofitted accordingly. (Photo: GEA)

technology and the seamless integration of the waste heat recovery plant into AIS's existing infrastructure, ensuring optimal performance and reliability, the criteria were met.

Mr. Rupinder Shelly, COO Architectural Glass, Asahi India, said, "As a leading and responsible glass company, AIS is committed to aligning state-of-the-art technologies and operations with sustainability at our new greenfield float glass plant in Soniyana.

Our collaboration with GEA is a crucial step towards our goal of achieving carbon neutrality.

AIS' vision on sustainability not only underlines our commitment to the circular economy, but also sets new standards in the glass industry in terms of environmental responsibility and innovation."

Waste heat recovery is a key factor in improving overall energy efficiency. GEA technologies make it possible to capture waste heat and process gases from existing processes and reuse them for other purposes, such as heating or power generation.

Saving energy and reducing emissions are key success factors in the cement, **Glass**, iron and steel, non-ferrous metals and refining industries, and GEA is always at their side as a highly reliable designer and supplier of comprehensive energy recovery plants. Thanks to GEA's extensive experience and expertise with close cooperation with partners and carefully selected sub-suppliers, all solutions include highly efficient components and state-of-the-art technologies such as ORC (Organic Rankine Cycle) based energy recovery. Exactly what is required for efficient energy recovery and emission reduction depends on the individual industrial plant, considering the potential impact of energy recovery on the existing gas cleaning

process or, in the case of new plants, its full integration.

GEA is one of the world's largest suppliers of systems and components to the food, beverage and pharmaceutical industries. The international technology group, founded in 1881, focuses on machinery and plants, as well as advanced process technology, components and comprehensive services. www.gea.com

NATIONAL WORKSHOP ON SUSTAINABLE GLAZING STRUCTURES

The National workshop on "Sustainable Glazing Structures - Structural Integrity, Safety and Energy Efficiency" was successfully conducted by IIT Madras and Glazing Society of India (GSI) on Nov 22 at IIT Madras campus in Chennai.

The objective of the workshop was to deliberate on the design parameters

for safety, structural and energy performance, selection of materials for Sustainable Glazing Structures and to understand & facilitate the implementation of codes and standards for use of sustainable glass and glazing in India.

In his Chief Guest address, Prof. (Dr.) Ashwin Mahalingam, Professor, Department of Civil Engineering, Dean – Alumni and Corporate Relations and Former Chairman, School of Sustainability, IIT Madras emphasized the importance of sustainability in the Architectural, Engineering and Construction sector and encouraged active participation of all stakeholders in knowledge sharing and innovative thinking to shape a greener, more sustainable future in the built environment. In his special address, Prof. (Dr.) S Arul Jayachandran, Professor, Structural



Engineering, Department of Civil Engineering, IIT Madras expressed sincere appreciation to all the Glass and Glazing Industry for the success of this initiative and highlighted the importance of such partnerships in promoting such sustainable practices. Dr. Alagappan Ponnalagu, Assistant Professor, Structural Engineering, Department of Civil Engineering made the welcome address and Mr. G N Gohul Deepak, Executive Director gave the vote of thanks.

Technical presentations were given by eminent speakers from the Industry and Academia including Prof. (Dr.) Arul Jayachandran; Dr. Alagappan Ponnalagu; Mr. Shailesh Ranjan, National Head – Business, Asahi India Glass Ltd; Ms. Sheetal Khanna, General Manager, Gold Plus Glass Industry Ltd.; Mr. Shoaib Shaikh, National Head Projects, Saint Gobain Glass Industry Ltd.; Dr. Lakshmi Priya, Assistant Professor, Structural Engineering, Department of Civil Engineering, IIT Madras and Dr. Omkar Powar, Innovations Manager, Schueco International R&D. The workshop concluded with an engaging panel discussion on sustainable glazing structures by the above technical experts.

The participants also visited the Structural Glass Research and Testing (SGRT) Facility, Fire Testing Lab, Impact Testing Lab and the Structural Laboratory at IIT Madras as part of the National Workshop.

More than 175 participants from Government including officials from CPWD, PWD, AAI etc, Industry representatives including glass manufacturers, processors, fabricators, etc., scholars from technical institutions including IITM, NIT, etc, architects, structural engineers, students, experts and professionals from glass & construction sector participated in the workshop.

£6M PROJECT KICKS OFF TRIALS TO DEMONSTRATE LOW-COST BIOFUELS HAVE POTENTIAL TO ACHIEVE UK NET ZERO TARGETS

A major industrial trial was successfully undertaken as part of a Glass Futures project to identify and demonstrate a variety of economically and technically suitable low-cost bioderived fuels for a range of industrial glass and ceramics sites with furnaces of varying designs and scales.

In previous Industrial Fuel Switching (IFS) round 1, phase 3 projects, Glass Futures demonstrated the feasibility of a number of biofuels such as for use in glass furnaces and identified fuels that emit circa 80% less Scope 1 CO₂ than traditional natural gas. However, these fuels were found to be typically 2-3 times more expensive than natural gas and therefore, economically unattractive.

The first of five trials kicked off with a successful industrial-scale trial at Pilkington UK Limited’s (part of NSG Group) Greengate site in St. Helens as part of a project funded by the UK government under the Department for Energy Security and Net Zero’s (DESNZ) IFS 2, phase 2 programme, funded within its Net Zero Innovation Portfolio.

Not only will the project develop a detailed understanding of these fuels, their availability and potential CO₂ savings but will also assess their compatibility with Carbon Capture Utilisation & Storage (CCUS) technologies in a project led by C-Capture, demonstrating the potential to remove CO₂ from the flue gas emissions.

Glass furnaces and ceramics kilns are pre-dominantly fired using natural gas due to ease of supply, and while the glass industry is already embarking on a range of new technologies to decarbonise glass melting, it is vital that these essential industries continue to find viable low-carbon alternatives to gas.

In March of this year, trials on Glass Futures combustion test bed facility provided valuable insights into the combustion properties of biofuel oil, alongside other biofuels, and the confidence to progress a selection of these fuels for trials on commercial glass furnaces and ceramics kilns.

Mr. Habib Khosroshahi, project team manager and programme lead for IFS said, *“Having demonstrated the capability of these biofuels at our facility earlier this year, we are excited to progress this technology to industrial-*



Image by Mr. Bernard Platt, taken during an industrial scale trial of biofuels at Pilkington UK (NSG Group) in 2022 that showed carbon savings of circa 70-80% of CO₂ vs. natural gas, proving

scale trials, working alongside our members to truly test their suitability for commercial implementation, towards a lower-carbon future for the glass and foundation industries.”

The project brings together partners from two essential industries, glass and ceramics. Partners include major glass manufacturers such as Ardagh Glass Packaging, Encirc, NSG Group and O-I, as well as the UK’s largest manufacturer of shaped refractories DSF Refractories & Minerals Limited.

Mr. Caio Mendonça, R&D Senior Decarbonisation Technologist at Pilkington UK, said: “This groundbreaking trial is an exciting step towards net-zero, and highlights our dedication to sustainable innovation within the glass industry. By testing biofuels at an industrial scale, we are pushing the boundaries of what is possible and demonstrating the power of cleaner, low-carbon alternatives to natural gas.

“This project is not just about reducing our own carbon footprint but also paving the way for the entire industry to transition towards more environmentally friendly practices. The insights we gain will help to accelerate the development of practical, cost-effective solutions that can be implemented across the sector.”

Mr. Steve Rotheram, Mayor of the Liverpool City Region said, “Glass Futures has a central role in our mission to decarbonise the Liverpool City Region. This initiative not only aims to transform the global glass industry, but it’s also creating new jobs and developing skills which are essential for the industries of the future.”

“I’ve been really impressed by the collaboration that’s got us to this place, it’s a great example of how partnership working can really amplify the talent that exists in the Liverpool City Region and beyond.

“It’s exciting to see Glass Futures take the next step, trialling low-cost biofuels which could enable the production of zero-emission gas more cheaply, while

contributing to the UK’s net-zero mission.”

Glass Futures will continue to find solutions for decarbonising energy intensive industries thanks to £7m funding and £11m for its members from DESNZ. Future trials include rapid and dynamic electric boosting of glass furnaces and demonstrating hydrogen in the ceramics sector.

AGI GREENPAC STRENGTHENS GLOBAL PRESENCE WITH NEW REGIONAL OFFICE IN DUBAI

Indian packaging company AGI Greenpac Limited has opened a new regional office in Dubai, expanding its footprint in the Middle East. The move is aimed at supporting the growing demand for high-quality packaging solutions in the region, particularly in the food, beverage, and pharmaceutical sectors.

The Middle East glass packaging market is projected to grow to USD 12.44 billion by 2029, driven by sectors that include food and beverages, pharmaceuticals, and personal care. AGI Greenpac’s focus on eco-friendly packaging products, including glass containers and security caps, aligns with the regional push for sustainability, such as efforts to reduce disposable plastics.

“The opening of our Dubai office marks a pivotal step in our global expansion strategy,” said Mr. Rajesh Khosla, CEO of AGI Greenpac. “We are well-positioned to capitalize on the robust growth of the Middle East’s food, beverage, and pharmaceutical sectors. Our local presence will allow us to deliver tailored packaging solutions that meet specific customer needs.”

Mr. Manpreet Singh, President of International Sales and Chief Strategy Officer, emphasized the strategic importance of the Dubai office. “This new office will strengthen our presence in the Middle East, foster deeper customer relationships, and enable us to adapt to local market dynamics,” he said.

The company has also committed \$27.34 million USD (₹230 crore) in the fiscal year 2025 to upgrade its manufacturing facilities. This investment will focus on advanced furnaces and technology upgrades.

CHANGE IN GLASTON’S EXECUTIVE LEADERSHIP TEAM

Mr. Magnus Sjöblom has been appointed as Glaston’s new Chief Financial Officer (CFO) and member of the Executive Leadership Team. Mr. Sjöblom will take up this position on March 1, 2025, and will report to CEO Mr. Toni Laaksonen.



Mr. Sjöblom joined Glaston in 2022 and takes over as CFO from the position of VP, Business Control & Strategy. Prior to Glaston, Mr. Sjöblom worked for Posti Group Oyj, where he was Head of Finance, Media and Partners, from 2019–2022. Before that, he held various financial leadership roles at UPM, Microsoft and Nokia.

“I am very pleased with Magnus Sjöblom’s appointment as our CFO and happy that we were able to find an internal successor with excellent business and financial skillset for this position. During the past two years, Magnus has demonstrated a strong commitment to the company with a mindset of continuous improvement. I’m confident that with Magnus’ contribution, we can further accelerate Glaston’s strategy execution,” says Mr. Toni Laaksonen, Glaston’s President & CEO.

KANCH KI PATHSHALA' or CLASSROOM ON GLASS

To hone the skills of the workforce and refine their glasswork further, understand every aspect, and brighten workers' future in the Glass business, the experts from the Industry once again got together and taught some amazing techniques and interesting tips enabling young workers to learn finer aspects and details of glass installations, etc.

The add-on event was held on Dec 5 and 6 under the aegis of ZAK Trade fair at New Delhi's Pragati Maidan's open amphi-theatre.

An open classroom on Glass was attended by approx. 600 Glass Traders, Installers, Fabricators, Contractors, Architects, Interior Designers, Consultants, Window makers, glass and window canopies amongst Technical professionals.

The program was held at the initiative of the FOSG- Federation of Safety Glass, ZAK Glass Technology, UWDMA- UPVC Windows and Doors Manufacturers Association, CCPS- Confederation of Construction Products and Services, WFM Media, AIGMF- The All India Glass Manufacturers' Federation, Glass Academy and GSI-Glazing Society of India.

कटते रहे पेड़... फिर भी बढ़ गया 2.12 वर्ग कि.मी. जंगल

फिरोज़ाबाद में पिछले दो साल में 58.85 से बढ़कर 60.97 वर्ग कि.मी. हो गया वन क्षेत्र

हरे पेड़ों पर भले ही आरी चलती रही, हरियाली की हत्या होती रही, लेकिन इस सबके बावजूद पिछले दो साल में फिरोज़ाबाद में 58.85 वर्ग कि.मी. से बढ़कर 60.97 वर्ग कि.मी. वन क्षेत्र हुआ है। फिरोज़ाबाद में 2.12 वर्ग कि.मी. वन क्षेत्र बढ़ा है। जबकि एटा में 2021 में वन क्षेत्र 23.97 वर्ग कि.मी. था जो 2022 में 20.82 वर्ग कि.मी. रह गया।



यहां 3.15 वर्ग कि.मी. कमी आई। हाथरस में 26.24 से घटकर 22.09 वर्ग कि.मी. और भरतपुर में 139.15 से घटकर 132.75 वर्ग कि.मी. वन क्षेत्र रहा। यहां वन क्षेत्र में 6.40 वर्ग कि.मी. कमी आई है। आगरा में 12.90 वर्ग कि.मी. वन क्षेत्र बढ़ गया है। वर्ष 2021 में यह आंकड़ा 261.83 वर्ग कि.मी. था। वहीं 2023 में यह 274.73 वर्ग कि.मी. पर पहुंच गया। यह हम नहीं भारत वन स्थिति 2023 की रिपोर्ट कह रही है।

आंकड़ों के अनुसार की तुलना में 2023 में जिले में 4.20 वर्ग कि.मी. मध्यम और 8.70 वर्ग कि.मी. खुले वन क्षेत्र में वृद्धि हुई है। केंद्रीय पर्यावरण मंत्री भूपेंद्र यादव

ने सर्वे रिपोर्ट जारी की।

जिसके अनुसार पर्यावरण दृष्टि से संवेदनशील ताज ट्रेनेजियम जोन (टीटीजेड) के जिलों में आगरा मथुरा, फिरोज़ाबाद में हरियाली क्षेत्र बढ़ा है।

आपको बता दें कि फिरोज़ाबाद के वरिष्ठ उद्योगपति श्री मुकेश कुमार बंसल (टोनी) एवं उप राष्ट्रपति द ऑल इंडिया ग्लास मैनुफैक्चर्स फेडरेशन के सफल योगदान के फलस्वरूप जिन्होंने गत 10 वर्षों से हाइवे एवं शहर की हरियाली के लिए साथी फाउंडेशन के प्रयास द्वारा दो लाख से अधिक वृक्षारोपण किया है।

(News Source:

AIGMF Research Team / World Wide Web)

National Education Day Celebrated at the Executive Committee Meeting and Related Events in Goa

(Nov 11-13, 2024)

The last 2024 Executive Committee Meeting of the AIGMF was held at GOA on Nov 12. The meeting was sponsored by M/s Nirmal Glasstech Industries at the Grand Hyatt, Bambolim Goa.

The group hotel stay was sponsored by M/s Glass Futures Ltd., UNITED KINGDOM at the Park Inn by Radisson Goa Candolim, from Nov 11-13. All Guests were provided airport transfers including local transportation.

On Nov 11, the dinner was hosted by Glass Futures Ltd., at Park Inn by Radisson Goa Candolim, GOA. Welcome speech was delivered by Mr. Dave Fordham, longstanding collaborator with AIGMF. Mr. Dave Fordham is a Former Publisher of Glass Worldwide magazine (UK); and currently serves as Member Editorial Board of KANCH in addition to his prime role as Global Engagement Lead with Glass Futures Ltd., St. Helens, UNITED KINGDOM.

After the breakfast at Park Inn by Radisson Goa Candolim on Nov 12, the plantation drive was done over a Group photo and before departing for the Executive Committee meeting at Grand Hyatt.

The welcome speech was given by Mr. Purvish Shah (Hon. General Secretary AIGMF; Director of Gopal Glass Works Ltd., and Gobind Glass and Industries Ltd). Mr. Shah welcomed all participants to this first-ever gathering of the Executive Committee Meeting





President AIGMF Mr. Rajesh Khosla (centre) and host of the Ex-Com Meeting Mr. Nirmal Mundra of Nirmal Glasstech Industries welcoming Youth icon Mr. Vaibhav Gehlot (right), son of former CM RAJASTHAN Mr. Ashok Gehlot. An active Politician who also served as the President of the Rajasthan Cricket Association was welcomed at the AIGMF Meeting to encourage Youth participation for educating benefits of Glass as a 100% sustainable packaging and building material.

with family at GOA. He said that “the program evolves around sustainability, we are extremely grateful to Glass Futures not only for sponsoring the accommodation of all participants but also for their efforts to educate the industry on next-generation biofuels, electric energy, and decarbonization



for manufacturing units. This aligns perfectly with the overall theme in the green city of GOA, where we all need to seriously think and find ways to make our environment clean. As a corporate social responsibility, and as a not-for-profit organization, AIGMF’s mandate





is to bring everyone together for this green-building exercise.”

Mr. Shah thanked Mr. Nirmal Mundra of Nirmal Glasstech Industries for hosting the Executive Committee meeting and aligning it with his son’s wedding in GOA.

Mr. Dave Fordham (Global



Engagement Lead, Glass Futures, UK) thanked AIGMF and glass members for getting together to discuss sustainability via decarbonisation which is need of the hour.

Unveiling of the annual calendar of AIGMF for 2025 on ‘Glass Decorates





or कांच से सजावट was done by the office bearers, overseas guests and the eldest member of the Glass Industry Mr. Mohan Lalvani of Mascot Engineering Company featuring best entries from the Youth 2024 contest.

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 contest themed 'Glass Decorates' or कांच से सजावट।

Winners were given cash prizes. And later the entire project was converted





into the 2025 Calendar by using their creatives and poems.

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 packaging material.



It was told that as a part of an educative process, 1000 wall calendars will be distributed to AIGMF Members/ Regional Associations, Stakeholders: Govt. of India Secretaries/office of Chief Secretaries/LGs/Administrators/ CMs/select GoI departments/Trade





Chambers/Education Secretaries/All FOSG Members/Firozabad/CGCRI contacts/General, Foreign Missions, select PAN India schools/colleges/ Universities, Niti Aayog, PMO, MNRE, Solar Module/Manufacturers, select worldwide glass associations, etc., by Nov 30, 2024.

The keynote speech on Role of Educational Institutions for building Industry workforce was given by Dr. A S RAO (Prof. & HoD, Department of Applied Physics, Delhi Technological University, DELHI).

Mr. Rajesh Khosla (President AIGMF and CEO / President AGI Greenpac) spoke about Need for Educating-Glass as an Eco-friendly material. He said “as we gather at the National Education Day, the topic clearly conveys our humble role to showcase the wonderful product glass as 100% recyclable and its role in reducing unsustainable packaging on the planet Earth.”

“Glass is fully recyclable, and with the support of global research organizations like Glass Futures and Electroglass, we





Mr. Mohan Lalvani presents the glass tumblers made by AGI glaspac to its CEO and President AIGMF Mr. Rajesh Khosla. These tumblers were made available from the personal collection of Mr. Lalvani that dates to 1990's showcasing Glass will never be out of lust.

have an ideal opportunity to discuss green policies that each of us can adopt for a better environment.”

Mr. Khosla said“ Education can flow from any level, on the AIGMF website you can check how young minds have beautifully expressed their thoughts through drawings, poems, essays, and photographs on the benefits of glass for health and eco-reasons.”

He also mentioned that “this excellent work will be featured in the first-ever touring exhibition, 'Glass or Class', from December 11-13 at Glasstech Asia and Fenestration Asia in VIETNAM partnered with Messe München. The

top entries from leading schools and colleges in INDIA will be displayed to a global audience. We believe that this is a two-way communication process, and I invite all members to share ideas as we move forward for a better living society”.

A technical presentation on Decarbonization in the Glass industry was given by Mr. Brian Matuszewski (Commercial Project Manager, Glass Futures) which was followed by a presentation on All Electric Melting- the proven technology for a sustainable, renewable and low carbon future by Mr. Grahame Stuart (Technical Sales Manager, Electroglass Ltd.).

After the lunch, the group departed for Ponda where a guided tour at the state-of-the-art Craft and Innovation of Diageo (member of Glass Futures) demonstrating its long-term research with a focus on driving Grain-to-Glass sustainability was kindly arranged by Mr. Srinidhi Rao, Head-Sustainability, Diageo India and his team for the visiting delegation. Members learned that Diageo has also launched an employability linked skills training program to train 1,000 youth over 3 years, in association with the Skill Development Mission of Government of Goa. More information is available at the video link- https://youtu.be/jl4zSSDHjkc?si=Q_TxBS-qG9I2x0hg

Later, the evening program provided an opportunity for all participants to attend the grand wedding celebrations of Mr. Aditya Mundra, Director, Nirmal Glasstech Industries at Grand Hyatt, Bambolim.

The three day event concluded on a high note that covered discussions on sustainability, national education policy, site visits, bonding and local sightseeing ■

All presentations and select photos are available at <https://aigmf.com/past-events.php>



AIGMF’s Executive Committee Meeting and celebrating International Women’s Day

(March 8, 2025)

at Royale de Casa Resort, Kaziranga (ASSAM)

Group Stay at Royale de Casa Resort, Kaziranga (March 7-9, 2025)

(Hotel stay and all arrangements sponsored by North East Sillimanite, Guwahati)

Program as on January 12, 2025

March 7 (Friday)	
0800-1400 hrs	<p>Arrival of AIGMF Members / Ex-Com Members / Office Bearers ideally by 2 pm</p> <p>(Airport transfers to Royale de Casa Resort, Kaziranga by road in cabs – allow 5 hours drive with one brief halt)</p> <p>Free Day</p>
2000 hrs	<p>Dinner hosted by North East Sillimanite</p> <p>Welcome speech by Mr. Aman Gupta, Director, North East Sillimanite</p>
March 8 (Saturday)	
0600-0900 hrs	Morning safari on elephant and jeep
0930-1030 hrs	<p>Visit to Kaziranga National Orchid And Biodiversity Park</p> <p>Breakfast</p>
1100- 1300 hrs	Tour of the Biodiversity Park
1330-1430 hrs	Lunch
1500 hrs	<p>OPENING ADDRESS</p> <p>By Mr. Rajesh Khosla, President AIGMF and CEO/President AGI Greenpac</p>
1505 hrs	<p>TECHNICAL PRESENTATION’S:</p> <p>Glass Bottle Manufacturing- The Path to Optimal Sustainability through Automation and Digitalization</p> <p>By Ms. Sudha C Jebadurai, President, *AGR International Inc., USA</p> <p><i>*Offers a broad line of products and services specifically designed to help bottle manufacturers around the world produce high-quality containers while improving efficiencies, reducing costs and contributing to the responsible management of resources.</i></p> <p><i>Products include testing and measurement of dimensions, pressure, thickness, vertical load, volume, fill height, impact and more.</i></p> <p><i>In addition, Agr offers a full service independent research and testing laboratory with expertise in testing, design analysis, analytical testing, consulting, training, inspection, product liability and auditing for the glass container industry.</i></p>

1530 hrs	<p>Towards Sustainable Glass Manufacturing By Ms. Yukiyo Uno, Sales Manager, *Nippon Electric Glass Co., Ltd, JAPAN</p> <p><i>* Offers Oxy-Fuel combustion technology; Electric melting technology and Glass melting furnace technology for carbon-neutral</i></p> <p>TALK BY OTHER WOMEN LEADERS:</p>
1600 hrs	<p>Flat Glass for Green Building and CSR initiatives By Ms. Sheetal Khanna, General Manager, Gold Plus Glass Industry Ltd.</p>
1615 hrs	<p>The Power of Diversity: Women Leaders Transforming Growth By Ms. Sangeetha Shenvi, Vice President – Sales, Schott Poonawala Pvt. Ltd.</p>
1630 hrs	<p>Role of Science in Glass Manufacturing By Dr. K Annapurna, Chief Scientist, CSIR-Central Glass and Ceramic Research Institute</p>
1645 hrs	<p>Q/A</p> <p>Tea/Coffee Break</p>
1715 hrs	<p>Brainstorming session on Glass Promotion covering:</p> <ul style="list-style-type: none"> - Raw Materials - Machinery - Make in India initiatives - Public Advocacy <p>Executive Committee Meeting</p>
1815 hrs	Group photo / Plantation drive
1930-2200 hrs	Cultural program followed by dinner <i>hosted by North East Sillimanite</i>
March 9 (Sunday)	
0600-0900 hrs	Morning safari on elephant and jeep
0800-1100 hrs	<p>Breakfast</p> <p>Check-outs</p> <p>Return flights to the respective destinations</p> <p><i>(Transfers to Guwahati airport- allow 5 hours drive with one brief halt)</i></p>

NOTES:

- 1) Guests to be received/dropped at the airport; including transport to Kaziranga and other local running
- 2) **Double-occupancy rooms** at Royale de Casa Resort, Kaziranga **sponsored by M/s North East Sillimanite** for 2 nights (March 7-9) strictly on a first-cum-first served basis to those who provide confirmed air/rail tickets latest **by Jan 31, 2025**
- 3) For more information, please email at info@aigmf.com

January - March 2025 Issue

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