



XXVII International Congress on Glass | 2025

Glass: A Smart and Indispensable Material for Sustainable Society

Organised by



VENUE:

Biswa Bangla Convention Centre,
Newtown, Kolkata, West Bengal, India
January 20-24, 2025



TECHNICAL PROGRAM



Technical Associates



Pre-Conference Events

January 19, 2025 (Sunday)

Venue: CSIR-Central Glass and Ceramic Research Institute, Kolkata

Time (hr)	Event	Venue
13:00 – 14:00	Lunch (For Tutorial participants, CTC and TC Members)	K D Sharma Multipurpose Hall
14:00 – 15:30	Meet the Mentor (for Tutorial Participants)	A P C Roy Seminar Hall
15:30 – 17:15	Lab visit at CSIR-CGCRI (for Tutorial Participants)	
14:00 – 18:00	ICG's CTC and TC meetings	Committee Rooms*

***Room allotments will be done as per the Technical Committees requirements**

XXVII ICG 2025

TECHNICAL PROGRAM

January 20- 24, 2025

Venue: Biswa Bangla Convention Centre, Kolkata

Day 1 : January 20, 2025 (Monday)

TIME (hr)	EVENT
8:00	Registration 2nd floor in front of entrance
TIME (hr)	EVENT
9:00 - 11:10	ICG Award Ceremony Main Auditorium (Hall 1)
9:00 - 9:05	Invocation
9:05 - 9:15	Welcome Address by Dr. Sitendu Mandal , Conference President, ICG 2025 and Chief Scientist, CSIR-CGCRI, Kolkata, India
9:15 - 9:25	Address by Prof. Hiroyuki Inoue President, International Commission on Glass and Professor, University of Tokyo, Tokyo, Japan
9:25 - 9:32	Address by Dr. K. Annapurna , Chair, Technical Programme, ICG 2025, Chief Scientist, CSIR-CGCRI, Kolkata, India
9:32 - 9:39	Address by Prof. Reinhart Conradt , Immediate Past President, International Commission on Glass and Uniglass AC GmbH, Aachen, Germany
9:39 - 9:46	Address by Prof. Arun Varshneya , President, Society of Glass Technology & President, M/s Saxon Glass Technologies, Alfred, USA
9:46 - 9:53	Address by Prof. Manoj Choudhary , Former President, ICG and Adjunct Professor, The Ohio State University, Columbus, USA
9:53 - 10:00	Address by Prof. Alicia Duran , Former President, ICG and Research Professor CSIC, Instituto de Cerámica y Vidrio, Madrid, Spain
10:00 - 11:10	ICG Awards 2025 presentation and Award Lectures:
10:00 - 10:20	ICG President's Award Awardees : Edgar Dutra Zanotto Kathleen Richardson Lili Hu Tsutomu Minami
10:20 - 10:25	ICG V. Gottardi Prize Awardee : Thomas Bennett
10:25 - 10:35	ICG W.E.S. Turner Award Awardee : Massimo Guglielmi Peggy Georges
10:35 - 10:40	Woldemar A. Weyl Award Awardee: Maxime Cavillon
10:40 - 11:10	Woldemar A. Weyl Award Lecture by : Maxime Cavillon Assistant Prof. Department of Chemistry, Université Paris-Saclay, France 3D Structuring of Oxide Glasses by Ultrashort Laser Pulses for High Temperature Environments
11:10 - 11:20	Inauguration of Poster Session and Exhibition by Prof. Hiroyuki Inoue , President, ICG
11:20 - 11:50	TEA/COFFEE BREAK

11:50 – 12:00	Reassembling in main Auditorium (Hall - 1)
12:00 – 13:10	Inauguration of ICG 2025
12:00 – 12:05	Lighting of the Lamp
12:05 – 12:15	Welcome Address by Prof. Bikramjit Basu , Director, CSIR-CGCRI, Kolkata, India
12:15 – 12:45	Address by Chief Guest, Dr. Jitendra Singh , Honourable Minister of State for Science and Technology and Earth Sciences, Govt. of India and Vice President, CSIR, India
12:45 – 12:50	Release of Abstract Book
12:50 – 13:00	Felicitation of the Dignitaries on the Dais
13:00 – 13:05	Vote of Thanks by Dr. Atiar Rahaman Molla , Organizing Secretary, ICG 2025 and Sr. Principal Scientist, CSIR-CGCRI, Kolkata, India
13:05 – 13:10	National Anthem
13:10 – 13:15	Group Photo
13:15-14:30	Lunch Break

HALL - 1 : PLENARY SESSION - 1

Time (hr)	Event	Speaker/Title of Talk
14:30-15:10	PL – 1	S Kumar Memorial Lecture Bikramjit Basu Director, CSIR- CGCRI Emerging Innovation Ecosystem in Glass and Ceramics in India

HALL - 1 : STRATEGIC APPLICATIONS AND FUTURISTIC TECHNOLOGIES

15:10-15:22	Industry Presentations	Gopal Ganatra , Executive Director, M/s Asahi India Glass
15:22-15:34		Sudhir Pillai , Managing Director, M/s Corning India
15:34-15:46		Jimmy Tyagi , CEO, M/s Gold Plus Glass Industry Ltd., India
15:46-15:58		Somya Vashishtha , National Sales Head (India)-Ceramics, M/s Hindalco Industries Ltd, India
15:58-16:10		Sudipta Saha , President, Operations and Business Head, M/s Prism Johnson Ltd, India
16:10-16:22	National Lab	M. R. Ajith , Group Director, Advanced Materials Group, VSCC, ISRO, Trivandrum, India
16:22-16:35	TEA/COFFEE	

PARALLEL TECHNICAL SESSIONS (JAN 20, 2025)

(16:35 – 18:19)

HALL - 2 : TECHNICAL SESSION - 1

SYMPOSIUM - 2 : GLASSES FOR OPTICS AND PHOTONICS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
16:35-17:05	KT-S2-1	Virginie Nazabal	Infrared luminescence of chalcogenide glasses doped with rare earth ions and their potential applications
17:05-17:30	IT-S2-1	Animesh Jha	Pulsed laser-based deposition for adhesive bonding of micro-to-nanoscale glass, ceramic, and polymer composite for thin film devices
17:30-17:55	IT-S2-2	M. Tomita	Glass technologies and products for future application in photonics area
17:55-18:07	CL-S2-1	Nisha Deopa	Dysprosium ion concentration variations and their comprehensive influence on the physical structural and optical properties of multi component borate glasses for luminescence tailoring
18:07-18:19	CL-S2-2	Roberto Lorenzi	Investigation of the role of defects in the scintillation mechanism of Ga ₂ O ₃ glass-ceramics

HALL - 3 : TECHNICAL SESSION - 2

SYMPOSIUM - 4 : MODELLING AND DYNAMIC SIMULATION OF GLASS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
16:35-17:05	KT-S4-1	Chandan Das Gupta	Living glass: activate matter at high densities
17:05-17:30	IT-S4-1	Smarajit Karmakar	Annealing Amorphous Solids using Oscillatory Shear and Active Dopants and Memory Formation
17:30-17:55	IT-S4-2	Shingo Urata	Role of hydrogen doping for compensating oxygen defect in nonstoichiometric amorphous In ₂ O ₃ -x: modelling with machine learning potential
17:55-18:07	CL-S4-1	Sunil Kumar	Sub-micrometer scale Molecular Dynamics Simulation of strain induced nucleation and crystal growth in a super cooled glassy phase of copper
18:07-18:19	CL-S4-2	Indrajit Tah	Fragility in glassy liquids: A structural approach based on machine learning

HALL - 4 : TECHNICAL SESSION - 3**(JAN 20, 2025)****SYMPOSIUM - 6 : GLASSES FOR ARCHITECTURAL, ENERGY AND ENVIRONMENT**

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
16:35-17:05	KT-S6-1	Steve Martin	Thin-film glassy solid electrolytes as a new functionality for glass enabling high energy density Li and Na all solid-state batteries
17:05-17:30	IT-S6-1	Aswini Ghosh	Different facets of ion dynamics in ionic glass
17:30-17:55	IT-S6-2	John McCloy	Incorporation and crystallization of anions in borosilicate glasses
17:55-18:07	CL-S6-1	Purnananda Nandi	Post-irradiation examination of lead glasses for RSW application
18:07-18:19	CL-S6-2	Geeta Sharma	Bi ₂ S ₃ Q-Dot silicate glass for thermal Energy Harvesting for ICT devices

HALL - 5 : TECHNICAL SESSION - 4**SYMPOSIUM - 9 : GLASS AND GLASS - CERAMICS FOR EMERGING APPLICATIONS**

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
16:35-17:05	KT-S9-1	Himanshu Jain	Lattice engineered crystal-in-glass architecture: A new kind of metamaterial for integrated optics
17:05-17:30	IT-S9-1	Atul Khanna	Effects of melt history on the glass forming ability of heavy metal oxide tellurite and borate glass systems
17:30-17:55	IT-S9-2	C. Venkateswaran	The transformative power of a magical material: Glass
17:55-18:07	CL-S9-1	Prasenjit Barick	Lithium Aluminosilicate low-expansion glass-ceramic-Composition effect on salient properties, crystallization mechanism
18:07-18:19	CL-S9-2	Chinmoy Das	Coordination network-based glasses: A new frontier of emerging materials

HALL - 7 : TECHNICAL SESSION - 5

(JAN 20, 2025)

SYMPOSIUM - 10 : ADDITIVE MANUFACTURING AND NOVEL MANUFACTURING PROCESS OF GLASS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
16:35-17:05	KT-S10-1	Atsunobu Masuno	Functional Unconventional Oxide Glasses Prepared by a Levitation Technique
17:05-17:30	IT-S10-1	Michel Fokine	3D Printing Glass for Photonics and Life Science Applications
17:30-17:55	IT-S10-2	Amit Bandyopadhyay	Bioglass reinforced Ti_6Al_4V for load-bearing implants
17:55-18:07	CL-S10-1	Akansha Mehta	Developing sustainable approach of upcycling non-recyclable glass and bauxite residue waste into membranes by additive manufacturing for waste-water treatment
18:07-18:19	CL-S10-2	Arish Dasan	Upcycling of Waste Glass through Digital Advancements and Advanced Manufacturing Practices for a Sustainable Future

HALL - 6 : TECHNICAL SESSION - 6

SYMPOSIUM - 3 : SUSTAINABLE GLASS MANUFACTURING AND PROCESSING

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
16:35-17:05	KT-S3-1	T K Chakraborty	Evolution of Indian Glass Industries
17:05-17:30	IT-S3-1	Sheetal Khanna	Sustainable practices to be adopted during the Glass Manufacturing process in the Factories
17:30-17:55	IT-S3-2	Rob Ireson	Carbon Capture - An enabler for net-negative glass manufacturing?
17:55-18:07	CL-S3-1	Canalp Kulahl	Numerical Modelling of Regenerators in Hybrid Glass Furnaces: Optimizing for Decarbonization
18:07-18:19	CL-S3-2	Changlin Zheng	Circular Raw Materials for Glass Manufacturing

19:30 - 22:30

Celebration of Women in Glass, Felicitation of
Champions of ICG 2025 & Glass Industry followed
by Banquet Dinner

Ganges Queen

PARALLEL EVENTS ON DAY 1

Time (hr)	Event	Venue
14:30 – 18:00	ICG Steering Committee Meeting	Glass Room, BBCC
On everyday	Meet the Mentors (for Young Researchers)	During Lunch Breaks

DAY 2 : JANUARY 21, 2025 (TUESDAY)

HALL - 7 : PLENARY SESSION - 2

Time (hr)	Event	Speaker/Title of Talk
09:30-10:10	PL-2	B L Kheruka Memorial Lecture Arun K. Varshneya President, Society of Glass Technology & President, M/s Saxon Glass Technologies, Alfred, USA Stronger Glass Products: Expanded Horizons
10:10-10:50	PL-3	K D Sharma Memorial Lecture Pradeep Kumar Kheruka CMD, M/s Borosil Renewables Limited, Mumbai, India Journey of Glass Manufacturing in India
10:50-11:05	TEA/COFFEE	

PARALLEL TECHNICAL SESSIONS (JAN 21, 2025)

(11:05 – 13:15) - (14.15-15.40)

HALL - 2 : TECHNICAL SESSION - 7

SYMPOSIUM-2: GLASSES FOR OPTICS AND PHOTONICS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S2-2	Heike Ebbendorf	Tellurite glasses: unique material for up conversion fluorescence and plasmonic based applications
11:35-12:00	IT-S2-3	Saurabh Kapoor	Impact of varying strain rate during proof stress on the mechanical reliability of optical fiber
12:00-12:25	IT-S2-4	Seongwoo Yoo	Refractive index profiling of a Tm-doped fibre for ultrafast laser applications in anomalous dispersion region
12:25-12:50	IT-S2-5	Gopi Sharma	Linear and Nonlinear Absorption in Different Glass Formers for Photonic Applications
12:50-13:15	IT-S2-6	Ivan Kasik	Nanoparticle doping – a method of fabrication of highly efficient rare-earth-doped silica fibres for fibre lasers
13:15-14:15		LUNCH BREAK	
14:15-14:40	IT-S2-7	Anirban Dhar	Advancing Specialty Optical Fiber Performance through strategic Design and Composition Engineering
14:40-14:52	CL-S2-3	Nagaraju J	Structural, optical and conducting properties of aluminium borate glasses doped scandium ions
14:52-15:04	CL-S2-4	Saswata Chakraborty	MIR emission and visible up conversion from Yb-Er co-doped thermally stable low germanium barium-zinc-calcium-aluminate glasses
15:04-15:16	CL-S2-5	Manoj Singh Shekhawat	Study of lanthanide organic frameworks based on polycarboxylate ligands
15:16-15:28	CL-S2-6	Michal Kamrāidek	Dual-wavelength fiber lasers based on structured-core active fibres
15:28-15:40	CL-S2-7	Prerna Vashistha	Enhanced red emission in Eu ³⁺ doped alkali fluoride borate glasses: white LED applications

HALL - 3 : TECHNICAL SESSION - 8

SYMPOSIUM - 12 : RECYCLING OF GLASS

(JAN 21, 2025)

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11.05-11.35	KT-S12-1	Patrick Potzinger	Latest in Cullet Beneficiation
11:35-12:00	IT-S12-1	Purvish Shah	
12.00-12.25	IT-S12-2	Karthik Morar	Glass Sand Briquetting – Recovery of unwanted Glass Fines
12:25-12:50	IT-S12-3	Amit Mahajan	Enhancing Circular Economy Through Glass Cullet Recycling
12:50-13:15	IT-S12-4	Ashutosh Joshi	Glass recycling
13:15-14:15	LUNCH BREAK		
14:15-14:40	IT-S12-5	Ashis Kumar Mandal	Waste Utilisation in Glass and Recycling of Glass Waste in Preparation of Light Weight Porous Glass Foam
14:40-14:52	CL-S12-1	Dave Fordham	Glass Futures: A Research and Collaboration Platform to increase recycling rates within the glass sector
14:52-15:04	CL-S12-2	Himanshu Sekhar Maharana	Process for recycling of end-of-life solar cover glass
15:04-15:16	CL-S12-3	Md. Saif Hossain	Applying the Concept of Glass Ceramics on Waste Admixtures to recover Critical Elements
15:16-15:28	CL-S12-4	Stephan Sander	Towards a circular economy: The potential
15:28-15:40	CL-S12-5	Sumanta Mukhopadhyay	Refractory Solutions for the Glass Industry

HALL - 4 : TECHNICAL SESSION - 9

(JAN 21, 2025)

SYMPOSIUM - 6 : GLASSES FOR ARCHITECTURAL, ENERGY AND ENVIRONMENT

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S6-2	Michel J Ojovan	Vitreous materials for nuclear waste immobilisation
11:35-12:00	IT-S6-3	Suneel Gattu	ZnO-based SiO_2 - B_2O_3 - Na_2O Glass for Vitrification of Lanthanide and Actinide Rich High-level Liquid Waste (HLW)
12:00-12:25	IT-S6-4	Ashutosh Goel	Structural design of borosilicate-based nuclear waste glasses
12:25-12:50	IT-S6-5	Ana C. M. Rodrigues	Electrode Capacitance Measurements to Unveil the Effective Charge Carrier Concentration in Lithium Disilicate
12:50-13:15	IT-S6-6	Sophie Schuller	Fundamental Research to Advanced Simulation: Enhancing French Nuclear Waste Vitrification
13:15-14:15	LUNCH BREAK		
14:15-14:40	IT-S6-7	Avlokita Agrawal	Glass for Sustainability- Material Vs Design
14:40-14:52	CL-S6-3	Patrick Stargardt	Determination of very low gas permeability of glasses for potential high-pressure hydrogen storage applications
14:52-15:04	CL-S6-4	Selvakumar Jayaprakasam	Separation of Lanthanides (Ln, Ce, and Nd) from radioactive liquid waste and immobilization in borosilicate (SiO_2 - B_2O_3 - Na_2O - TiO_2 - Fe_2O_3) glass
15:04-15:16	CL-S6-5	Takashi Kato	Glass briquet feeding for vitrification of HLW from MOX spent fuels; in-situ observation using X-ray imaging
15:16-15:28	CL-S6-6	Bartlomiej Gawel	High purity quartz for PV glass crucibles with superior mechanical properties
15:28-15:40	CL-S6-7	Clo�� Laurin	Redox behaviour of ruthenium in borosilicate glass melts for nuclear waste vitrification

HALL - 5 : TECHNICAL SESSION - 10

(JAN 21, 2025)

SYMPOSIUM - 9 : GLASS AND GLASS-CERAMICS FOR EMERGING APPLICATIONS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S9-2	Timothy M. Gross	Glass-Ceramics research at Corning: Past, Present, and Future
11:35-12:00	IT-S9-3	Ramesh K	Amorphous to crystalline transition accompanied by metal-insulator in As substituted Ge-Sb-Te glasses
12:00-12:25	IT-S9-4	Erico Maeda	Influence of atomic structure on surface crystallization in glass
12:25-12:50	IT-S9-5	Shibayan Roy	Micro-texture development in machinable mica-based glass-ceramics
12:50-13:15	IT-S9-6	Akash Bhatnagar	Functional glass ceramics: Fundamentals to applications
13:15-14:15	LUNCH BREAK		
14:15-14:40	IT-S9-7	Shiv Prakash Singh	Preparation and Properties of Nanostructured Glass
14:40-14:52	CL-S9-3	Devarajulu Gelija	Pr_2O_3 and $\text{Pr}_2\text{O}_3/\text{Yb}_2\text{O}_3$ doped CsPbBr_3 perovskite nanocrystals embedded borosilicate glass for photonic applications
14:52-15:04	CL-S9-4	Anirban Chakrabarti	SiO_2 - Na_2O - K_2O - Nb_2O_5 glasses: Investigation of crystallization kinetics, conductivity and dielectric properties
15:04-15:16	CL-S9-5	Maria Clara Gonçalves	Self-supported flexible glasses with magnetic properties: room temperature synthesis
15:16-15:28	CL-S9-6	Ariharan S	Novel zinc-borosilicate glass for low-temperature co-fired ceramics (LTCC) based electronic substrates

HALL - 7 : TECHNICAL SESSION - 11

(JAN 21, 2025)

SYMPOSIUM - 5 : GLASS SURFACE SCIENCE AND COATING

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S5-1	Satoshi Yoshida	Indentation-induced cracks on pristine and fractured surfaces of silica glass
11:35-12:00	IT-S5-1	R. Subhasri	Sol-Gel Derived Nanocomposite Coatings on Glass for Diverse Applications
12:00-12:25	IT-S5-2	Karthik Kumar	Glass Coatings – Bridging Functionality and Sustainability Across Industries
12:25-12:50	IT-S5-3	Seong H. Kim	Invisible defects in glass surface and their impacts on durability
13:15-14:15	LUNCH BREAK		
14:15-14:40	IT-S5-4	Nagendra Kumar	Architectural glass through advanced coating technologies towards sustainable green energy solutions
14:40-14:52	CL-S5-1	Ondrej Gedeon	Surface and subsurface of barium glass de-alkalised by water leaching and by electron irradiation
14:52-15:04	CL-S5-2	Sourav Sahoo	Two-Dimensional Coatings for Superior Damage-Resistant Glasses
15:04-15:16	CL-S5-3	Srikrishna Manna	Room temperature curable Inorganic-Organic hybrid nanocomposite coatings embedded in-situ generated stable Ag NPs: Properties evaluation and applications

HALL - 6 : TECHNICAL SESSION - 12

SYMPOSIUM - 7 : GLASSES FOR HEALTHCARE

(JAN 21, 2025)

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S7-1	Parag Bhargava	Processing and microstructure evolution in leucite/fluorapatite glass ceramics
11:35-12:00	IT-S7-1	Santanu Dhara	Customized Dental Prosthetics by Ceramic Dough Shaping – Improved Strength and Aging Resistance
12:00-12:25	IT-S7-2	G. Rajkumar	Synthetic Bone of The Future: Fluorophosphate glass-based bone graft
12:25-12:50	IT-S7-3	Sudipta Chakraborty	Intrinsically 90Y-Radiolabeled Yttria Alumino Silicate Glass Microspheres for Treatment of Unresectable Liver Cancer
12:50-13:15	IT-S7-4	Senthil Murugan Ganapathy	Biomedical Spectroscopy: Novel Platform and New Prospects
13:15 - 14:15 LUNCH BREAK			
14.15-14.40	IT-S7-5	S. Balakumar	Prioritizing and formulating phase-dependent nano-bioactive glasses for rapid hemostasis and tissue regeneration: From material development to clinical products
14:40-14:52	CL-S7-1	Janhnavi Bhagavath	Snail shell (CaO) doped Potassium Titanium Phosphate Bioactive Glasses for Biomedical Applications
14.52-15.04	CL-S7-2	Orhan Sisman	In vitro photodynamic therapy using dye loaded mesoporous bioactive glass nanoparticles
15.04-15.16	CL-S7-3	Ashokraja Chandrasekar	Eco-Friendly Flash PEO Coatings for Improving the Biocompatibility and Biodegradation of AZ31B Magnesium Alloys
15.16-15.28	CL-S7-4	Selvarajan N S	Vital Vitrum tegere augmenting patient- specific implants by osseoglassification
15.28-15.40	CL-S7-5	S K Hasanur Rahaman	Bioactive Glass (BAG) and Bismuth Ferrite (BF) based Smart Biocomposites with In Situ Electrical Stimulation for Promotion of Early-Stage Osteogenesis
15:40 - 15:55 TEA/COFFEE			

HALL - 6 : PLENARY SESSION - 3

(JAN 21, 2025)

Time (hr)	Event	Speaker/Title of Talk
15:55-16:35	PL-4	Kalyan Kumar Phani Memorial Lecture Suman Kumar Bal Chief Sales & Marketing Officer, Specialty Alumina, Hindalco, Mumbai, India Alumina in Advanced Glass Applications: A Techno-Commercial Prospective
16:35-18:30	Poster Session	Exhibition Hall
18:30-22:30	Cultural Programme followed by Conference Dinner	Exhibition Hall

PARALLEL EVENTS ON DAY - 2 : JANUARY 21, 2025

Time (hr)	Event	Venue
8:30 – 13:30	AMCC meeting/Glass for Women meeting	Glass Room, BBCC
14:30-18:30	Council Meeting	Glass Room, BBCC

DAY 3 : JANUARY 22, 2025 (WEDNESDAY)

HALL - 7 : PLENARY SESSION - 4

Time (hr)	Event	Speaker/Title of Talk
9:30-10:10	PL-5	C K Somany Memorial Lecture Manoj Kumar Choudhary President, MKC Innovations, LLC. and Adjunct Professor, The Ohio State University, Columbus, USA Pathways and Challenges to Decarbonizing Industrial Glass Melting
10:10-10:50	PL-6	3rd N L Varshneya Memorial Lecture on Sustainability in Glass Stuart Hakes Chief Executive, F.I.C. (UK) Limited, Long Rock Industrial Estate, Penzance, UK Electric Forehearths for Energy Reduction and Decarbonisation
10:50 - 11:05	TEA/COFFEE BREAK	

PARALLEL TECHNICAL SESSIONS (JAN 22, 2025)

(11:05 – 13:10)

HALL - 2 : TECHNICAL SESSION - 13

SYMPOSIUM - 8 : GLASSES FOR TRANSPORT AND PACKAGING

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11.05-11.30	IT-S8-1	Ajay Joshi	Quality Assurance in Forehearth Colored Glass Bottles: Challenges & Innovations
11.30-11.55	IT-S8-2	Ajit Kumar	Glass for Pharmaceutical Packaging
11.55-12.20	IT-S8-3	Shravantika Lakshmi	Glasses for Transport and packaging
12.20-12.45	IT-S8-4	Rahul Nikanj	New Trends in Automotive Glazing
12.45-13.10	IT-S8-5		

HALL - 3 : TECHNICAL SESSION - 14

SYMPOSIUM - 1 : GLASS SCIENCE : PHYSICS AND CHEMISTRY

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S1-1	Doris Möncke	Revisiting preferential bonding in borosilicate glasses and the Dell-Bray-Yun model
11:35-12:00	IT-S1-1	Nadege Ollier	Densification of silica glass and the metamict-like phase
12:00-12:25	IT-S1-2	Laurent Cormier	Cuprite crystallization in glasses: redox changes and the impact of copper and lead in reducing atmospheres
12.25-12.37	CL-S1-1	Yoshinari Kato	Structural aspects of ambient-temperature densification of highly crack-resistant borosilicate and aluminoborosilicate glasses: Two case studies examined by solid-state NMR
12.37-12.49	CL-S1-2	Sathya Narayanasamy	Characterization of the glass alteration layers to study the evolution of its morphology and transport properties and generate predictive models
12.49-13.01	CL-S1-3	Mikio Nagano	In-Situ Observation of Dynamic Deformation and Cracking in Glass Subjected to High-Speed Impact of a Blunt Indenter
13.01-13.13	CL-S1-4	Anupama Yadav	Structural, physical and optical property evolution in $(\text{Ge}_{33}\text{As}_{12}\text{Se}_{55})_{1-x}\text{Ag}_x$ chalcogenide glass system with Ag addition

HALL - 4 : TECHNICAL SESSION - 15

(JAN 22, 2025)

SYMPOSIUM - 3 : SUSTAINABLE GLASS MANUFACTURING AND PROCESSING

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S3-2	Reinhard Conradt	One and multicomponent crystalline states-relation to iso-chemical liquid to glasses
11:35-12:00	IT-S3-3	Erik Muijsenberg	Industry 4.0+: Enhancing production efficiency with AI and MPC, reducing carbon footprint, and asset monitoring
12:00-12:25	IT-S3-4	C V Raju	Sustainability in Glass Manufacturing - The Seven Point Focus
12:25-12:50	IT-S3-5	Ulrich Imhof	Innovative / alternative furnace heating concept by using CO ₂ -free fuel (H ₂)
12.50.13.02	CL-S3-3	Somsubhra Sensarma	Application of high temperature refractories in glass tank furnace
13.02-13.14	CL-S3-4	Michel Gaubil	Glass Furnace corrosion monitoring supported by numerical simulation: A key solution to follow soldier block corrosion

HALL - 5 : TECHNICAL SESSION - 16

SYMPOSIUM - 10 : ADDITIVE MANUFACTURING AND NOVEL MANUFACTURING PROCESS OF GLASS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S10-2	Susmita Bose	3D-Printed Bioglass-Calcium Phosphate Scaffolds for bone tissue engineering and drug delivery
11:35-12:00	IT-S10-3	Hiroyuki Inoue	Container less process for the preparation of novel glasses and their structures and properties
12:00-12:25	IT-S10-4	Kohei Yoshimoto	Optical properties and local structures of La ₂ O ₃ -TiO ₂ -based multicomponent glasses prepared by aerodynamic levitation technique
12:25-12:50	IT-S10-5	Ravi Shankar	Additive manufacturing and novel manufacturing processes of Glass
12.50.13.02	CL-S10-3	Gesine Bergmann	Securing interoperability in flat glass processing
13.02-13.14	CL-S10-4	Gabriel Tayama	Optimization of nanocomposite-based resins for glass 3D printing applied to hybrid manufacturing of optical components

HALL - 7 : TECHNICAL SESSION - 17

(JAN 22, 2025)

SYMPOSIUM - 11 : ARCHAEOLOGY OF GLASS AND GLASS EDUCATION

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S11-1	Albert Thomas	Sustainability and Glass related curriculum in the Engineering Education- An Indian perspective.
11:35-12:00	IT-S11-1	Alok Kumar Kanungo	Indian Drawn Glass Beads in Maritime World: A Case Study of Vadnagar Glass
12:00-12:25	IT-S11-2	Shailesh Ranjan	Preserving the Heritage of Glass: Integrating Archaeometry with Current Education for Future Innovations
12:25-12:50	IT-S11-3	Mathieu Hubert	Education and outreach activities at Corning and beyond
12:50-13:15	IT-S11-4	Mohit Garg	National Standardization in the Field of Glass & Glassware: India's Perspective

HALL - 6 : TECHNICAL SESSION - 18

SYMPOSIUM - 2 : GLASSES FOR OPTICS AND PHOTONICS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S2-3	John M Parker	Electronic energy levels in silicate glasses: the nature of bonding
11:35-12:00	IT-S2-8	Jayanta Sahu	Recent progress in Bi- and Er-doped silica optical fibers and amplifiers
12:00-12:25	IT-S2-9	B Eraiah	Novel photoactive rare earth/ transition metal oxide doped glasses
12:25-12:50	IT-S2-10	V V Ravi Kanth Kumar	White Light and Supercontinuum generation in glasses
12:50-13:15	IT-S2-11	Andrea Camargo Simone	Structure And Photo physics of Rare Earth Ion Doped Gallium Phosphofluoride Glasses Containing Silver Nanostructures: Effects of Heat Treatment and Femtosecond Direct Laser Writing

13.15-14.15

LUNCH BREAK

14:15 (onward)

CITY TOUR (On Payment basis)

DAY 4 : JANUARY 23, 2025 (THURSDAY)

HALL- 7 : PLENARY SESSION - 5

Time	Event	Speaker/Title of Talk
09:30-10:10	PL-7	<p>Prasenjit Saha Memorial Lecture Alicia Duran Research Professor CSIC, Instituto de Cerámica y Vidrio, Madrid, Spain</p> <p>Glass, The Hidden Gem of Sustainability</p>
10:10-10:50	PL-8	<p>Prabhu Nath Memorial Lecture Rajesh Ganapathy Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India</p> <p>Unveiling the ‘hidden’ structural order in dense liquids and glasses</p>
10:50 - 11:05	TEA/COFFEE	

PARALLEL TECHNICAL SESSIONS (JAN 23, 2025)

(11:05 - 13:15) - (14.15 - 15.28)

HALL - 2 : TECHNICAL SESSION - 19

SYMPOSIUM - 2 : GLASSES FOR OPTICS AND PHOTONICS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S2-4	Somnath Bandyopadhyay	Transforming Glass into Waveguides for Fiber-Based Devices in modern Laser and Sensor Applications
11:35-12:00	IT-S2-12	A. S. Rao	Advances in rare earth doped glasses: Unlocking multifunctional applications across technology frontiers
12:00-12:25	IT-S2-13	R Thiruneelakkandan	Investigation of Flaws in glass beam expander by Mach-Zehnder interferometer
12:25-12:50	IT-S2-14	Nilanjana Shasmal	Effects of direct femtosecond laser writing on chloroborosilicate glasses doped with $\text{Eu}^{3+}/\text{Eu}^{2+}$ and CdS quantum dots
12:50-13:15	CL-S2-8	Pritha Patra	Fabrication of Te-nanoparticle embedded tellurite glass for optical limiting application
12:50-13:15	CL-S2-9	Devaraja C	Structural, physical, optical properties of alkali zinc tellurium borate glasses doped with cerium oxide
13:15-14:15	LUNCH BREAK		
14:15-14:40	CL-S2-10	Sudipta Ghosh	Enhanced erbium doping in mesoporous silica glass for advanced photonic applications
14:15-14:40	CL-S2-11	Sarathkumar Loganathan	Ultrafast laser direct inscription of the photonic waveguide in Er-doped tellurite glass ceramics
14:39-14:51	CL-S2-12	Sachin Kumar	Innovative fibre laser threshold magnetometry: Fabrication and characterization of ytterbium and diamond-doped tellurite fibre
15:03-15:15	CL-S2-13	Sourabh Wajhal	Understanding the local structure and network connectivity of rare earth doped tellurite glasses through neutron diffraction
15:16-15:28	CL-S2-14	Akila Prabhudessai	Glass formation, thermal stability, and optical properties of Se/Te rich Ge-Se-Te glasses

HALL - 3 : TECHNICAL SESSION - 20

(JAN 23, 2025)

SYMPOSIUM - 1 : GLASS SCIENCE: PHYSICS AND CHEMISTRY

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	IT-S1-3	Daniel R. Neuville	Unravelling the role of cation mixing in glass and melt properties
11:35-12:00	IT-S1-4	Margit Fabian	Structure and durability studies of a glass network loaded with mixture of lanthanides/uranium
12:00-12:25	IT-S1-5	Luiz Pereira	Rheology of complex silicates: physics vs. chemistry
12:25-12:37	CL-S1-5	José Schneider	Solid-State Vitrification of Li and Al phosphates through mechanical milling
12:37-12:49	CL-S1-6	Biplab Das	An effective utilization of copper redox states in alkali zinc borate glasses for structural probing and enhancing luminescence activity
12:49-13:01	CL-S1-7	Tatsuya Mori	Coherent potential approximation analysis based on heterogeneous elasticity theory for boson peak spectra of various glasses
13:01-13:13	CL-S1-8	Anuraag Gaddam	Structural investigation sodium alumino-phospho-silicate glasses by advanced NMR, neutron scattering and molecular simulations
13:15-14:15	LUNCH BREAK		
14:15-14:40	IT-S1-6	T. G. Ajith Kumar	Insights into chemical durability, and structure of ZnO incorporated sodium borosilicate glasses from Solid-State NMR
14:40-14:52	CL-S1-9	Yining Cui	Synthesis and structure analysis of B-O-N glass with high nitrogen content
14:52-15:04	CL-S1-10	Jiten Ghosh	Study of short-range structural ordering in nano-structured ceramics and Amorphous materials from laboratory based atomic pair distribution function (LAPDF) in a conventional X-ray diffractometer using Ag radiations
15:04-15:16	CL-S1-11	Archana Shukla	MD simulation of lead silicate glass with varying Lead composition
15:16-15:28	CL-S1-12	Yohei Onodera	The structure of an initial crystal nucleus in aluminosilicate glass-ceramics investigated by X-ray multiscale analysis

HALL - 4 : TECHNICAL SESSION - 21

(JAN 23, 2025)

SYMPOSIUM-6 : GLASSES FOR ARCHITECTURAL, ENERGY AND ENVIRONMENT

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S6-3	Sitendu Mandal	A Journey towards Technology Development of Specialty Glasses for Radiation Shielding Windows and Nuclear Waste Immobilization at CSIR-CGCRI
11:35-12:00	IT-S6-8	Bharat Kale	Quantum dots (Q-Dots)-glass for photonics and energy
12:00-12:25	IT-S6-9	Valeri V Poluektov (Vladislav Petrov)	Environmental safety of ancient 140 Ma radioactive volcanic glasses
12:25-12:50	IT-S6-10	Gohul Deepak	Selection of Glass for Safe and Sustainable Architecture
12:50-13:15	IT-S6-11	Andrea Pilla	The Minimal Wall: Enhancing Composite Behaviour of Structural Sealant Glazed Facades for Material Optimization
13:15-14:15	LUNCH BREAK		
14:15-14:40	IT-S6-12	D Banerjee	Radiation stability studies on sodium borosilicate glasses
14:40-14:52	CL-S6-8	Tetsuji Yano	Combinatorial approach on the development of borosilicate glass matrices for HLW encapsulation from MOX spent fuels
14:52-15:04	CL-S6-9	Sandeep Kaur	Environment friendly cover glasses for solar panels
15:04-15:16	CL-S6-10	Kalyan Roy	Alteration of iodine bearing glass matrix in vapor and aqueous phases: experimental and geochemical modelling on evaluation of chemical durability
15:16-15:28	CL-S6-11	Alexis Delanoë	Oxide glasses materials: potential candidates as positive electrodes active materials for Li-ion and Na-ion batteries

HALL - 5 : TECHNICAL SESSION - 22 (A)

(JAN 23, 2025)

SYMPOSIUM - 3 : SUSTAINABLE GLASS MANUFACTURING AND PROCESSING

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:30	IT-S3-6	Vasco Sousa	Solutions for sustainable glass manufacturing
11.30-11.42	CL-S3-5	Terutaka Maehara	Properties of glass melted under high water vapor atmosphere
11.42-11.54	CL-S3-6	Jaroslav Klouzek	Refractory Corrosion During Industrial and Waste Glass Melting: The Impact of Temperature and Melt Flow Velocity
11.54-12.06	CL-S3-7	Miroslav Polak	Mathematical modelling as a “must” in sustainable glass production
12.06-12.18	CL-S3-8	Daniel Backhouse	Glass Futures: A Research and Collaboration Platform for Glass Industry Decarbonisation
12.18-12.30	CL-S3-09	Dominik Orzol	The Testing of New Container Glass Compositions in a Real World Environment
12.30-12.42	CL-S3-10	Krishna Surendra Muvvala	Advanced Refractory Solutions for low CO ₂ emission glass melting process.
12.42-12.54	CL-S3-11	Luc Jarry	Oxy-combustion: Heat recovery, Hydrogen and Carbon capture, the last developments for decarbonizing of hard-to-abate industries.
13:15-14:15	LUNCH BREAK		

HALL - 7 : TECHNICAL SESSION - 23

(JAN 23, 2025)

SYMPOSIUM - 4 : MODELLING AND MOLECULAR DYNAMIC SIULATION OF GLASSES

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S4-2	Alastair N.Cormack	On the environment of Mg cations in some magnesium aluminosilicate glasses from Molecular Dynamics Simulations
11:35-12:00	IT-S4-3	Malte Sander	The past, the present and the future of industrial furnace design
12:00-12:25	IT-S4-4	Martin Kilo	Glass Digital – A joint project to digitalise glass development
12:25-12:50	IT-S4-5	Jincheng Du	Insights on phase evolution and ion transport mechanisms in glass-ceramic solid state electrolytes from atomistic simulations
12:50-13:15	IT-S4-6	SK Musharaf Ali	Structure-property correlation of multi-component glass through Atomistic Simulations
13:15-14:15	LUNCH BREAK		
14:15-14:40	IT-S4-7	Ralf Mueller	Glass Digital: Data driven workflow for accelerated glass development
14:40-14:52	CL-S4-3	Srutisangeeta Jena	Developing $\text{Fe}_4(\text{P}_2\text{O}_7)_3$ glasses using machine learning based ab-initio molecular dynamics
14:52-15:04	CL-S4-4	Kausik Hira	GloGMat: Global glass material database from tables using distant supervision and graph attention networks
15:04-15:16	CL-S4-5	Cillian Cockrell	Crossover in local dynamics underlying the glass transition
15:16-15:28	CL-S4-6	Sumit Tiwari	Origin of the glass corrosion residual rate: Monte Carlo, Molecular Dynamics and Experiments

HALL - 6 : TECHNICAL SESSION - 24 (A)

SYMPOSIUM - 7 : GLASSES FOR HEALTH CARE

(JAN 23, 2025)

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:05-11:35	KT-S7-2	Leena Hupa	Understanding the dissolution behaviour of bioactive glasses
11:35-12:00	IT-S7-6	Nilay J. Lakhkar	From Biomaterials Scientist to Biomaterials Entrepreneur: Perspectives from our Journey
12:00-12:25	IT-S7-7	Jui Chakraborty	Bioactive glass in healthcare: Hope or Hype
12:25-12:37	CL-S7-6	Anustup Chakraborty	Borosilicate bioactive glass coating for Ti-6Al-4V based orthopaedic implants: From compositional design to applied coating
12:37-12:49	CL-S7-7	Rupam Saha	Incorporation of Bi ³⁺ as a network modifier into silicate based bioactive glass via sol-gel method for enhanced radiopacity-A potential application in image guided orthopaedic surgery
13.15 - 14.15 LUNCH BREAK			

HALL - 5 : TECHNICAL SESSION - 22 (B)

SYMPOSIUM - 9 : THEME: GLASS AND GLASS-CERAMICS FOR EMERGING APPLICATIONS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
14:15-14:40	IT-S9-8	Xiang Hua Zhang	Functionalization of chalcogenide glasses by controlled crystallization
14:40-14:52	CL-S9-7	Subrata Panda	Ceramic particulate reinforced glass/glass-ceramic composites for structural applications
14:52-15:04	CL-S9-8	Raktima Chatterjee	Dy ³⁺ doped nanocrystalline BaAl ₂ Si ₂ O ₈ glass-ceramic phosphor: A potential material for W-LEDs
15:04-15:16	CL-S9-9	Pratyasha Rudra	Exploring low ppm chemiresistive NO ₂ sensing property of H-glass embedded with stable gold Nano-Islands at room temperature and below
15:16-15:28	CL-S9-10	Hongyi Deng	Exploring the dielectric properties, glass ability and ferroelectric phases in the BaO-Bi ₂ O ₃ -TiO ₂ -B ₂ O ₃ -Al ₂ O ₃ system to develop glass-ceramics for energy storage and conversion applications

HALL - 6 : TECHNICAL SESSION - 24 (B)

(JAN 23, 2025)

SYMPOSIUM - 11 : ARCHEOMETRY OF GLASS AND GLASS EDUCATION

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
14:15-14:40	IT-S11-5	Annika Blake Risng-Howland	An Overview of Glass Cultural Heritage Conservation and Conservation Science: Historic and Modern Methods
14:40-14:52	CL-S11-1	Natali Risteska	Study on the Elemental Compositions of Blue and Red Ancient Glass Beads from Central Thailand
14:52-15:04	CL-S11-2	Martin Kilo	Preservation of Ancient Glass and Enamels using Glass Ormocers
15:04-15:16	CL-S11-3	Nadege Ollier	Sorting the colourless Roman glass by using photoluminescence

15:30-15:45

TEA/COFFEE

HALL - 7 : PLENARY SESSION - 6

Time (hr)	Event	Speaker/Title of Talk
15:45-16:25	PL9	R Subramanian Memorial Lecture Steve Whettingsteel CEO, Krysteline Technologies Ltd, Southampton, UK The Decarbonisation Pathway for Used Glass
16:25-17:05	PL10	Srikumar Banerjee Memorial Lecture Edgar Dutra Zanotto Professor, Federal University of São Carlos, São Carlos, Brazil Cracking Crystal Nucleation in SCLs and Glasses during the Pandemic

17:05 - 18:30

Meet the Mentors
(for Young Researchers)

HALL 2 - 6

DAY 5 : JANUARY 24, 2025 (FRIDAY)

HALL - 7 : PLENARY SESSION – 7

Time (hr)	Event	Speaker/Title of Talk
9:30-10:10	PL11	Amalendu Paul Memorial Lecture Srikanth Sastry Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India Fatigue Failure in Cyclically Sheared Glasses
10:10-11:10	Rapid Fire presentation (selected best posters)	
11:10-11:25	TEA/COFFEE	

PARALLEL TECHNICAL SESSIONS (11:25 - 13:28)

HALL - 2 : TECHNICAL SESSION - 25

SYMPOSIUM - 2 : GLASSES FOR OPTICS AND PHOTONICS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:25-11:50	IT-S2-15	Kaushik Biswas	Specialty Glasses for a Self-Reliant India: From Lab-Scale to Pilot Plant
11:50-12:15	IT-S2-16	Subrata Das	Crystal-engineered garnet phosphor in glass composite for blue light-converted high-power white LEDs
12:15-12:27	CL-S2-15	Naveenkumar Kurapati	Transition metal oxides doped lead silicate glasses for photonic applications
12:27-12:39	CL-S2-16	Ahmet Caner Kayaalp	Optimization of Er ³⁺ /Yb ³⁺ co-doped phosphate -based laser glasses for enhanced laser performance
12:39-12:51	CL-S2-17	Pawel Socha	ZBLAN optical fiber preforms development with the extrusion method
12:51-13:03	CL-S2-18	Jagannath G	Gold and silver nanoparticles containing glasses: An efficient glass based SERS substrate
13:03-13:15	CL-S2-19	John M. Bussey	Soft X-ray absorption spectroscopy to explore fluorine in glass: A ZBLAN case study

HALL - 3 : TECHNICAL SESSION - 26

(JAN 24, 2025)

SYMPOSIUM - 1 : GLASS SCIENCE : PHYSICS AND CHEMISTRY

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11.25-11.55	KT-S1-2	K. Muraleedharan	Role of Modeling and Simulation in Manufacturing of Specialty Optical Glass
11.55-12.20	IT-S1-7	Michael J Ojovan	Three crossover temperatures related to structural changes in glass forming systems
12.20-12.32	CL-S1-13	Yoshitaka Saijo	Sulphur valence depth profile on the surface of float glass using EPMA with a step-wise etching technique
12.32-12.44	CL-S1-14	Nadezhda Shchedrina	Exploring densification mechanisms of silica glass in femtosecond laser modifications using Nano-FTIR
12.44-12.56	CL-S1-15	Daniela Schwarz	From liquid to solid: Applying high-temperature oscillatory rheometry and DMA for the advanced characterization of glass
12.56-13.08	CL-S1-16	Debdutta Lahiri	Comprehensive Characterization of the structure of Zr-based glasses

HALL - 4 : TECHNICAL SESSION - 27

SYMPOSIUM - 9 : GLASS AND GLASS - CERAMICS FOR EMERGING APPLICATIONS

TIME (h)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:25-11:50	IT-S9-9	Suresh Sripada	Cutting –Edge Research on nanocrystallization in tellurite-based Glass – Glass-ceramic materials for Current & Future applications
11:50-12:15	IT-S9-10	Atiar Rahman Molla	Ultra-Strong Transparent Glass-Ceramics: Revolutionizing Next-Generation Armor and Display Applications
12:15-12:27	CL-S9-11	Ates Gosterislioglu	Composition design for high-strength thin glasses in float furnaces
12:27-12:39	CL-S9-12	S K Mishra	Structural properties of $\text{LiNbO}_3\text{-TeO}_2$ glasses: Total Neutron Diffraction and Reverse Monte Carlo
12:39-12:51	CL-S9-13	Kazuki Mitsui	Iron-containing oxide glasses with n-type conductivity
12:51-13:03	CL-S9-14	Caterina Sgarlata	Vanado-tellurite glass-ceramics containing copper oxide: effect of chemical composition on microstructural-electrical properties
13:03-13:15	CL-S9-15	John Kaman	Local dielectric behaviour of Sb_2S_3 ‘Rotating Lattice Single Crystal’ embedded in glass
13.15-13.27	CL-S9-16	Md Amir	Beyond Glass: The revolutionary potential of transparent glass- ceramics

HALL - 5 : TECHNICAL SESSION - 28

(JAN 24, 2025)

SYMPOSIUM - 4 : MODELLING AND DYNAMIC SIMULATION OF GLASS

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:25-11:50	IT-S4-8	N M Anoop Krishnan	High throughput information extraction from literature for glass research
11:50-12:15	IT-S4-9	Sarika Maitra Bhattacharya	Exploring the structural contribution to dynamics in supercooled liquids
12:15-12:27	CL-S4-7	Rajsekhar Das	Soft pinning: Experimental validation of static correlations in supercooled molecular glass-forming liquids
12:27-12:39	CL-S4-8	Lucas Ueberricke	Thermodynamic property prediction of multicomponent oxide glasses and glass-ceramics using the CALPHAD approach
12:39-12:51	CL-S4-9	Sushanta Kumar Mohapatra	Structural elucidation of zinc silico calcium aluminate glasses for Mid Infrared photonic applications: Experimental and MD simulation study
12:51-13:03	CL-S4-10	Kumaresan Thangaraj	Influence of transport processes on chemical vapor deposition (CVD) online coating quality
13:03-13:15	CL-S4-11	Katelyn Kirchner	From theory to practice: Selecting the ideal modelling technique to optimize glass quality
13:15-13:27	CL-S4-12	Roni Chatterjee	Role of fragility of glass-formers on the yielding transition under oscillatory shear

HALL - 7 : TECHNICAL SESSION - 29

SYMPOSIUM - 6 : GLASSES FOR ARCHITECTURAL, ENERGY AND ENVIRONMENT

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:25-11:50	IT-S6-13	Maulik Patel	Glass in nuclear extremes or effect of lithium concentration on network connectivity and radiation effects of nuclear waste glasses
11:50-12:15	IT-S6-14	Allu A. Reddy	Glass Supported Metal Nano Particles for Solar-Driven H ₂ Evolution
12:15-12:40	IT-S6-15	Srinivasa Rao Atchuta	Importance of Coatings on Solar glass for Photovoltaic Application
12:40-13:05	IT-S6-16	A Tarafder	Thermally cyclable glass and glass-ceramic sealant: An Indigenous solution of sealing issues in Solid Oxide Fuel Cell (SOFC)
13:05-13:17	CL-S6-12	Biswanath Sen	Solar glass composition for enhanced durability and mechanical strength- low brittleness and high crack initiation load

HALL - 6 : TECHNICAL SESSION - 30

(JAN 24, 2025)

SYMPOSIUM - 5 : GLASS SURFACE SCIENCE AND COATING

TIME (hr)	ABSTRACT ID	SPEAKER	ABSTRACT TITLE
11:25-11:50	IT-S5-5	Chandrachur Mukherjee	Development of specialized optical coatings at RRCAT, Indore
11:50-12:15	IT-S5-6	Sunirmal Jana	Surface patterning of sol-gel thin films for advancing properties toward potential applications
12:15-12:27	CL-S5-4	Narendra Chundi	Development of neutral colour anti-reflective coatings on solar glass and to evaluate its application for photovoltaic modules
12:27-12:39	CL-S5-5	Tomomi Sekine	Sodium migration from flat glass substrates to thin films

13:35 - 14:35

LUNCH

14:35 - 15:30

VALEDICTORY SESSION

15:30 - 16:00

HANDOVER CEREMONY

16:00

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