

*ICG Annual Meeting 2018 (Yokohama, Japan)**ICG Annual Meeting 2018 Plenary Talk***24 (Mon) Room A AM**

ID	Presenter		Title
<b>Plenary</b>	Akio	Makishima	Scientifically Really Important or Technologically Really Important
<b>Plenary</b>	Takuya	Shimamura	The Past, Present and Future of Japan's Glass Industry -Its Contribution to our Sustainable Society-

*ICG Annual Meeting 2018 Oral Session***24 (Mon) Room A PM****Glass Production Technology (with GlassTrend Seminar)**

ID	Presenter		Title
<b>Keynote</b>	Reinhard	Conradt	Prospects and Physical Limits of Innovative Processes and Technologies in Glass Melting
<b>Invited</b> ICGY003	Irene Mona	Peterson	Measuring Batch Reactions Using In-situ Neutron Diffraction
ICGY192	Christian	Roos	Investigations of Batch-to-melt Conversion in SLS-glasses under industry-near Conditions
ICGY239	Yoji	Doi	Melting Behavior of Carbonate-free Glass Batch - Can We Reduce Initial Bubbles?
<b>Invited</b> ICGY122	Hans	van Limpt	Impact of Glass Minerals on Glass Quality and Melting Efficiency
ICGY004	Chihiro	Sakai	Advanced Technology for Heat Soak Test (HST) of Tempered Glass
ICGY244	Andreas M.	Kasper	Contribution to the Safety Estimation of Heat-Soak Tested Thermally Toughened Safety Glass
<b>Invited</b> ICGY114	Stefano	Ceola	Integrated Approach to Glass Container Defect's Analysis
ICGY226	Kimiyasu	Okumura	Development of Evaluation Method for Bubble Gas Change in Molten Glass
<b>Invited</b> ICGY087	Ryunosuke	Kuroda	Fused AZS and the Glass Defects

<b>24 (Mon) Room B PM</b>	<b>i) Atomistic View of Glass -Structure &amp; Vibration &amp; Atomistic Simulation (TC03, TC26, TC27)</b> <b>ii) Innovative Glasses and Processes for Radioactive Waste Management (TC05)</b>
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ID	Presenter		Title
<b>Invited</b> ICGY363	Xianyu	Xue	Dissolution Mechanisms of H <sub>2</sub> O and CO <sub>2</sub> in Silicate Melts (Glasses): Information from NMR Spectroscopy
ICGY191	Babacar	Diallo	Probing Structural Specificities of Phase Separation Phenomena in BaBS {BaO-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> } System by High Resolution NMR Spectroscopy
ICGY182	Qiuju	Zheng	Liquidus Temperatures of Stone Wool Compositions
<b>Invited</b> ICGY311	Doris Charlotte	Möncke	Structure Property Correlation of Glasses beyond the Covalent Network, - an IR and Raman Spectroscopic Study
ICGY175	Masahiro	Shimizu	Experimental, Molecular Dynamics, and Theoretical Approach to the Soret Effect in Sodium Borate Glass Melts
<b>Keynote</b>	Stephane	Gin	How Silicate Glasses are Protected by Surface Layers?
ICGY163	Laurence	Galoisy	Zr <sup>4+</sup> as Probe of Two Layers in Alteration Gel of Simplified Nuclear Glasses
<b>Invited</b> ICGY189	Katsuhiko	Ishiguro	Development of the NUMO Safety Case for Geological Disposal and Performance Assessment of a Vitrified High-level Radioactive Waste
<b>Invited</b> ICGY149	Kayo	Sawada	Studies on the Characteristics of Alumina-rich Borosilicate Glass Regarding the Effect on its Leachability
ICGY146	Koichiro	Takao	Rapid and Significant Elution of Various Elements from Borosilicate Glass Matrix in Acidic Condition towards Retrieval of Radionuclides from Vitrified Nuclear Wastes

<b>24 (Mon) Room C PM</b>	<b>Glasses for 21st Century Photonic Technologies (TC20)</b>
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ID	Presenter		Title
<b>Invited</b> ICGY376	Kathleen	Richardson	Rethinking Infrared Optical Design Strategies: Tailorable Property Solutions from Novel Infrared Materials and Processing Routes
<b>Invited</b> ICGY129	Virginie	Nazabal	MWIR Emissions from 3 to 8 μm of Rare Earth Doped Chalcogenide Glasses
ICGY031	Long	Zhang	Developments and Challenges of Mid-Infrared Materials for Optical Applications
ICGY010	Kohei	Yoshimoto	2.7-μm Mid-infrared Emission in Highly Er <sup>3+</sup> -doped La <sub>2</sub> O <sub>3</sub> Ga <sub>2</sub> O <sub>3</sub> Glasses Prepared using an Aerodynamic Levitation Technique
ICGY219	Yong Gyu	Choi	Enhancing Adhesion between Chalcogenide Glass and Diamond-like Carbon

	ICGY123	Zheming	Zhao	A Chalcohalide Glass Fiber with High Nonlinearity but Low Material Zero-dispersion via Extrusion
<b>Invited</b>	ICGY181	Jong	Heo	Light-induced Precipitation of Quantum Dots in Glasses
	ICGY188	Zhiyong	Zhao	Lead Chalcogenide Quantum Dots Formation in Glasses Assisted by Electric Field
<b>Invited</b>	ICGY316	Bharat Bhanudas	Kale	Quantum Dot –Glass Nanosystems for Solar Hydrogen Production
	ICGY074	Georgiy	Shakhgildyan	Femtosecond Laser-induced Modification of Silver and Semiconductor Doped Oxide Glasses
	ICGY351	Nadia	Pellerin	Gold Nano Crystallization, Glass Structure and Nonlinear Properties in Silicate Oxide Glasses

<b>24 (Mon) Room D PM</b>			<b>i) Advanced Surface Characterization of Multicomponent Glasses (TC19)</b>	
			<b>ii) Coatings on Glass</b>	

	ID	Presenter		Title
<b>Invited</b>	ICGY166	Seong H.	Kim	Vibrational Spectroscopic Study of Silicate Network Structure and Hydrous Species in Glass
	ICGY016	Shin-ichi	Amma	Surface Layer Formed through Acid Treatment of Aluminosilicate Glasses
	ICGY082	Yuichi	Yamamoto	Precise Analysis of Mobile Ions and Silanol Concentration in Glass Surface
<b>Invited</b>	ICGY309	Joachim	Deubener	Alterations of Glass Surfaces and Functional Coatings for Energy Conversion Systems
	ICGY096	Guilherme	N.B.M. de Macedo	Lateral Hardness and the Scratch Resistance of Glasses in the Na <sub>2</sub> O-CaO-SiO <sub>2</sub> System
	ICGY321	Daisuke	Inaoka	Characteristics of Ceramic Targets in DC Magnetron Sputtering Process
	ICGY143	Kaihu	Fu	The study of Aadaptable Amorphous Carbon Films Applied on As <sub>40</sub> Se <sub>60</sub> Glass
<b>Invited</b>	ICGY202	Jooho	Moon	Solution-processed Earth-abundant Chalcogenide Materials on Glass for Photoelectrochemical Water Splitting
	ICGY231	Hiromitsu	Kozuka	Sol-gel Transfer Technique for Preparing Ceramic Thin Films on Plastics
<b>Invited</b>	ICGY141	David	Grosso	Sol-gel Metal Oxide Functional Coatings and Patterns Elaborated through Dip-coating and NanoImprint Lithography
<b>Invited</b>	ICGY064	Motoyuki	Toki	Fabrication of Organic-inorganic Coating Materials for Enhancing the Surface Functions

24 (Mon) Room E PM		Glasses under Elevated Pressure -Local versus Mean-field Compaction- (TC06)		
ID	Presenter		Title	
<b>Invited</b>	ICGY251	Anita Zeidler	The Atomic Scale Structure of Oxide Glasses under Pressure	
<b>Invited</b>	ICGY101	Daisuke Wakabayashi	Seamless Structural Transformations of SiO <sub>2</sub> Glass under High Pressure	
	ICGY011	Linfeng Ding	Pressure Dependence of Density and Structural Relaxation of Glass Near the Glass Transition Region	
<b>Invited</b>	ICGY019	Morten M. Smedskjaer	Densification and Cracking Behavior of Modifier-Free Mixed Network Glasses	
	ICGY180	Yoshinari Kato	Densification Distribution Measurement below Vickers Imprint in Silica Glass by a Combination between Raman Spectroscopy and HF Etching	
<b>Invited</b>	ICGY332	Enrico Gnecco	Surface Rippling of Silica Glass Surfaces Scraped by a Diamond Indenter	
	ICGY073	Shigeki Sawamura	Scratch-hardness of Glass	
<b>Invited</b>	ICGY034	Arun Varshneya	The Science & Technology of Stronger Glass Products	
<b>Invited</b>	ICGY280	Akio Koike	Chemically Strengthened Glass for Cover Applications	
	ICGY172	Sayako Hirobe	Numerical Analysis for Fracture Process in Thin Plate of Thermally Tempered Glass with In-plane Stress Distribution	
24 (Mon) Room F PM		Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)		
ID	Presenter		Title	
<b>Invited</b>	ICGY137	Philip S Salmon	Exploring the Structure and Dynamics of Network-forming Liquids and Glasses	
	ICGY030	Seiji Kojima	Neutron Scattering Study of Mixed Alkali Effect of Borate Glass	
<b>Invited</b>	ICGY377	Emma Barney	Developing New Potentials to Model the Structure of Multicomponent Glasses using Diffraction Data	
	ICGY038	Yukihito Nagashima	Analysis of Structure around Mg <sup>2+</sup> in Glasses in Na <sub>2</sub> O-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> System	
	ICGY110	Xu Xiaodian	Studies on Structure and Properties of Ta <sub>2</sub> O <sub>5</sub> /ZrO <sub>2</sub> Boron Based Special Dispersion Glasses	

<b>Invited</b>	ICGY088	Junko	Habasaki	Molecular Dynamics Study of Enhanced and Heterogeneous Dynamics in Porous Lithium Disilicates
	ICGY165	Alastair N.	Cormack	Molecular Dynamics Simulations of the Reactions of Water with CAS Glass Surfaces
	ICGY214	Shingo	Urata	Molecular Dynamics Simulations on Fracture of Composite of Oxide Glasses and Nano-particles
<b>Invited</b>	ICGY176	Francisco	Munoz	A Structural View of Glass Formation in Phosphate Based Systems
	ICGY151	Akira	Saitoh	The Structure and Properties of Pyro Zinc Tin Phosphate Glasses
	ICGY266	Hirokazu	Masai	Relationship between Structure and Physical Properties of ZnO-P <sub>2</sub> O <sub>5</sub> Glasses

25 (Tue) Room A AM		Glass Production Technology (with GlassTrend Seminar)		
ID	Presenter		Title	
<b>Invited</b>	ICGY099	Pavel	Hrma	Heat Transfer to Cold Cap in Electrical Glass Melting Furnace
	ICGY079	Kenji	Oda	Mathematical Modeling of Batch Melting in a Glass Tank Furnace
	ICGY215	Takeshi	Yamazaki	Regenerator Furnace Design Studies Combining Simulation and Statistical Tools
<b>Invited</b>	ICGY115	Noriyuki	Yoshida	Electrochemical Evaluation in Glass Melts
	ICGY130	Michel	Bogaerts	Absorption of Ni and Cr at High Temperature in Low-iron Glass: Effect on Energy Consumption in Industrial Furnaces.
	ICGY317	Kicheol	Kim	Redox Behavior in SnO <sub>2</sub> -doped Alkali Free Aluminoborosilicate E-glass Melts
	ICGY349	Hervé	Montigaud	Advanced Characterization of Float Glass Surface: Composition and Oxidation state of Sn, S and Fe.
	ICGY275	Takato	Kajihara	Effect of Aluminum on Modifier Ion Migration during Heat Treatment under N <sub>2</sub> /H <sub>2</sub> Atmosphere in Alkali Silicate Glasses
	ICGY262	Natalja	Pronina	Hyperquenching-annealing-calorimetric Scanning of Granulated Blast Furnace Slag
25 (Tue) Room A PM		i) Glass Production Technology (with GlassTrend Seminar) ii) History		
ID	Presenter		Title	
<b>Invited</b>	ICGY008	Jean-Pierre	Meynckens	The Refractories Selection, a Partnership between the Refractories Suppliers and the Glassmakers
	ICGY174	Michel	Gaubil	New High Zirconia Fused Cast Refractory Solutions for Sustainable Specialty Glass Production
	ICGY301	Toshiro	Tanimoto	Energy Saving Design with High Thermal Resisting and Insulating Monolithic Refractory in Container Glass Furnace
<b>Invited</b>	ICGY134	Manoj K.	Choudhary	Glass through the Ages
25 (Tue) Room B AM		Innovative Glasses and Processes for Radioactive Waste Management (TC05)		
ID	Presenter		Title	

<b>Invited</b>	ICGY292	Toshiro	Oniki	Study on Vitrification Technology for Radioactive Waste at Fukushima Daiich NPS
<b>Invited</b>	ICGY246	Takahiro	Ishino	The Outline of 'Basic Research Programs of Vitrification Technology for Waste Volume Reduction'
	ICGY273	Yoshiyuki	Miura	Development of High Waste Loading Glasses
	ICGY159	Milene	Delaunay	In-Can Melter Vitrification at the CEA Marcoule Site: Description of Process and Equipment, Initial Results Applied to Vitrification of High Activity Waste Solutions coming from D&D Operations
<b>Keynote</b>		Nobuyuki	Miura	Role of Vitrification in Radioactive Waste Management
	ICGY157	Akira	Sakai	Nuclear Waste Vitrification – Historical Perspectives and Promising Development Approaches in the Future
	ICGY121	Hidekazu	Kobayashi	Development of Noble Metals-Compatible Vitrification Melter in Tokai Vitrification Facility

<b>25 (Tue) Room B PM</b>	<b>Innovative Glasses and Processes for Radioactive Waste Management (TC05)</b>
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ID	Presenter		Title	
ICGY195	Yasuo	Ayame	The Risk Reduction in Tokai Reprocessing Plant by Vitrification of High Level Liquid Waste (HLLW)	
<b>Invited</b>	ICGY259	Olivier	Pinet	From HLW Vitrification to D&D Waste Vitrification
<b>Invited</b>	ICGY116	Martyn	Marshall	The 'Hazmelt' Thermal Treatment Technology ? A Review of Trial Outcomes and the Potential Application of the Technology to Existing Waste-streams.
	ICGY212	Hirohide	Kofuji	Vitrification Study of Used Adsorbent of the Extraction Chromatography for Am, Cm Recovery

<b>25 (Tue) Room C AM</b>	<b>Glasses for 21st Century Photonic Technologies (TC20)</b>
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ID	Presenter		Title	
<b>Invited</b>	ICGY378	James	Wilkinson	Wideband Amorphous Materials for Integrated Photonic Devices
<b>Invited</b>	ICGY366	Jianrong	Qiu	Active Ions Doped Glasses and Glass Ceramics for Photonic Devices
	ICGY190	Jaeyeop	Chung	Optical Properties of La <sub>2</sub> O <sub>3</sub> Containing Novel Oxyfluoride Glasses Prepared by Containerless Processing
<b>Invited</b>	ICGY260	Rolindes	Balda	Rare Earth Luminescence Dependence on Glass-ceramics Nano-structure

<b>Invited</b>	ICGY291	Yumiko	Katayama	Effect of Strain on Photoluminescence Properties in (Ca,Sr)TiO <sub>3</sub> :Pr <sup>3+</sup> Thin Films
	ICGY352	Omar	Bentouila	Spectroscopic Properties of Yb <sup>3+</sup> in Halogeno-phosphate Glasses
	ICGY250	Xin	Wang	What Role Does Cr <sup>3+</sup> Ion Play in Nd:phosphate Laser Glass?
	ICGY272	Nur Nabihah	Yusof	Spectroscopic Study and Judd-Ofelt Analysis of Neodymium Ions-doped Magnesium Zinc-sulfophosphate Glasses

**25 (Tue) Room C PM Glasses for 21st Century Photonic Technologies (TC20)**

ID	Presenter		Title
ICGY169	Kazuki	Asami	Preparation and Photoluminescence Characteristics of Eu <sup>2+</sup> Doped Barium Silicon Oxynitride Glass Ceramic for White LED
ICGY337	Vladimir	Aseev	Transparent Phosphor-in-Glass Composites with YAG:Ce and High Refractive Index Glass
ICGY276	Jumpei	Ueda	Orange Persistent Luminescence and Photo-darkening of CaO-Ga <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> Glass
ICGY360	Martin	Mika	Glass for Fast Infrared Electromagneto-optic Modulators
ICGY124	Marcelo	Nalin	New Magnetic Glasses

**25 (Tue) Room D AM Bioglasses**

ID	Presenter		Title	
<b>Invited</b>	ICGY041	Wolfram	Hoeland	Biomedical Glass-ceramics: 39 Years of Glass-ceramic Research and 29 Years of Close Contacts to Japanese Scientific
<b>Invited</b>	ICGY013	Robert	Hill	Structure and Properties of Fluoride Containing Bioactive Glasses
	ICGY092	Yeongjun	Seo	Synthesis of Sol-Gel Derived Bioactive Glass Nanoparticles and Their Low-temperature Sintering
	ICGY323	Leena Marita	Hupa	The Impact of Fluid Flow on Dissolution Kinetics of Bioactive Glasses
<b>Invited</b>	ICGY139	Yuki	Shirosaki	Biological Activity of Siloxane Units Derived from Organic-inorganic Hybrids
	ICGY362	Animesh	Jha	Crystalline-to-amorphous Phase Transformation in Calcium Phosphate Biomaterials by Doping with Different Concentrations of Fe <sup>3+</sup> -ions



ICGY113	Patricia Suemi	Sato	Preparation of Antibacterial Zinc Phosphate Glass Thin Films
<b>25 (Tue) Room D PM</b>			<b>Electric &amp; Magnetic Functions</b>
<b>ID</b>	<b>Presenter</b>		<b>Title</b>
<b>Invited</b>	ICGY014	Kostya Trachenko	Exploring Analogies between Spin-glass and Liquid-glass Transitions: New Understanding of Collective Modes in Dynamically-disordered Systems.
<b>Invited</b>	ICGY229	Lothar Wondraczek	Paramagnetic Glass Fiber for Precise Non-contact Optical and Magneto-optical Probing
	ICGY283	Yuko Nakatsuka	Spin Glass Behaviour of Manganese-containing Oxide Glasses
	ICGY365	Seisuke Nakashima	Magneto-optical Faraday Effect of Waveguide Structures Fabricated Inside Silica Xerogels Containing Magnetic Nanoparticles
<b>25 (Tue) Room E AM</b>			<b>Nanostructures</b>
<b>ID</b>	<b>Presenter</b>		<b>Title</b>
	ICGY047	Koichi Kajihara	Cosolvent-free Sol – gel Synthesis of Monolithic Highly-transparent Silica – REPO <sub>4</sub> Glass-ceramics with Bright Visible and Ultraviolet Photoluminescence
	ICGY222	Kanit Tapasa	Sol-gel Synthesis of a Phosphate-based Glass using an Organic Acid
	ICGY297	Kazuyoshi Kanamori	Transparent, Super-flexible Doubly Cross-linked Polyvinylpolymethylsiloxane Aerogels and Xerogels for Super-insulation
	ICGY057	Katsuaki Nakazawa	High-resolution In-situ Observation of Spinodal Decomposition in Silicate Glass
	ICGY021	Yevgeniy Sgibnev	Silver Ion Exchange in Photo-thermo-refractive Glass: Properties and Applications
	ICGY315	Taras Stepanovych Kavetsky	New Perspectives of Ureasil-chalcogenide Glass Composites for Construction of Amperometric Enzyme Biosensors
	ICGY295	Jihong Zhang	Mutual Effect of Quantum Dots and Rare Earth Ions in Glass Matrix
	ICGY350	Pavel Sergeevich Shirshnev	The Optical Properties of Boron Glass with Li(Al <sub>7</sub> B <sub>4</sub> O <sub>17</sub> ) Nanocrystals Doped with Copper Ions
	ICGY232	Chao Liu	Cesium Lead Halide Perovskite Nanocrystals Embedded Glasses
<b>25 (Tue) Room E PM</b>			<b>Nanostructures</b>

ID	Presenter		Title
<b>Invited</b> ICGY205	Alessandro	Martucci	Nanostructured Sol-gel Film for Optical Applications
ICGY328	Pascal Sugri	Fuseini Nbelayim	On the Effects of Plasmonic Nanostructures for Efficient Dye-sensitized Solar Cells
ICGY302	Takuya	Fujima	Hierarchical Nanoporous Layer Glass with Antireflectivity, Superhydrophilicity and Material Retention Capability.
ICGY240	Kiyoharu	Tadanaga	Preparation of Phenylsilsesquioxane Thick Films using Thermal Softening Behavior

**25 (Tue) Room F AM Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)**

ID	Presenter		Title
<b>Invited</b> ICGY200	Bernard	Hehlen	The Structure of Sodo-silicate and Alumino-silicate Glasses Observed by Raman Scattering: Experiments and Numerical Simulations
ICGY196	Georges	Calas	Iron in Glasses: an Overview of 40 Years of Spectroscopic Investigations
ICGY313	Hiroyuki	Hijiya	Consideration on the Structure of Fe <sub>2+</sub> in Na <sub>2</sub> O-RO-SiO <sub>2</sub> Glass System
ICGY319	Gérald	Lelong	Optical and X-ray Absorption Spectroscopies of iron in Minerals and Glasses: Experiment and Theory
<b>Invited</b> ICGY228	Daniel R.	Neuville	Al in Five Fold Coordination in Silicate Glasses and Melts: Myth or Reality?
<b>Invited</b> ICGY076	Jincheng	Du	Pressure Induced Structural and Property Changes of Borosilicate Glasses: Insights from Molecular Dynamics Simulations
ICGY198	Akihiro	Yamada	Densification of Borosilicate Glass and the Structure
ICGY125	Tetsuya	Murata	Influence of MgO Content on Mechanical Properties and Network Structure of Boro- and Alumino-silicate Glasses.

**25 (Tue) Room F PM Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)**

ID	Presenter		Title
ICGY368	Courtney Marie	Calahoo	Structural Insights into Ionic Glasses Through the Mixed-Alkali Effect
<b>Invited</b> ICGY103	Hellmut	Eckert	Structure-Property Correlations in Fluoride Phosphate Photonic Glasses

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ICGY154	Céline	Ragoen	Na <sup>+</sup> /K <sup>+</sup> Ion-exchange and Distribution of Modifiers Cations in Silicate Glass: Results from <sup>17</sup> O 3QMAS NMR
ICGY253	Pierre	Florian	Atomic-scale Structure and Dynamics in Strontium Aluminosilicate Glasses and Melts.

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25 (Tue) Room A 17:10-18:10		ICG Memorial Round Table Talk	
ID	Presenter	Title	
	N. Soga, H. A. Schaeffer, A. Yaraman, F. Nicoletti, S. Peng, M. Choudhary, A. Durán Carrera	ICG for Changing Society	

<b>26 (Wed) Room A AM</b>	<b>Glass Production Technology (with GlassTrend Seminar)</b>
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ID	Presenter		Title
ICGY357	Oscar	Verheijen	GlassTrend – The International Platform Guiding the Glass Industry towards Sustainable Glass Production
ICGY193	Anne J.	Faber	Towards CO <sub>2</sub> Neutral Glass Furnaces: Main Technological Options and Challenges
ICGY018	Chikashi	Kimura	The Economy to a Low-carbon & Circular Economy
ICGY126	Sebastian Viktor	Krogel	Alternative Fuel Usage for Glass Melting
ICGY128	Peter Charles	Milsom	All Electric Furnaces, A Sustainable Future?
<b>Invited</b> ICGY071	Hashira	Yamamoto	Treatment of Exhaust Gas from the Glass Melting Furnace using a Plasma-chemical Hybrid Process
ICGY142	Mark	Bennett	Thermal Imaging using a "NO <sub>x</sub> Filter" Helps Optimise Combustion for Emission Reduction
ICGY344	Mark Daniel	D'Agostini	Advanced Oxy-Fuel Combustion Technology for Improving Glass Quality, Fuel Efficiency and Reducing NO <sub>x</sub> Emissions
ICGY312	Masaru	Yamashita	Effect of Addition of ZnO and SiC on Decoloration in Foam Glass Prepared from Colored Glass Cullet

<b>26 (Wed) Room A PM</b>	<b>Glass Production Technology (with GlassTrend Seminar)</b>
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ID	Presenter		Title
<b>Invited</b> ICGY017	Tomoko	Akai	Management of End-of-life Cathode Ray Tube: Technological Overview and Possible Solutions
ICGY069	Hiroyuki	Inano	Lead Removal and Recovery from Waste CRT Glass by Reduction Melting
ICGY102	Faidra	Oikonomopoulou	A Novel Design Philosophy for Glass Load-bearing Structures that Facilitate Glass Recycling
ICGY135	Telesilla	Bristogianni	Structural Cast Glass Components out of Glass Waste: Diverting Everyday Discarded Glass from the Landfill to the Building Industry.
<b>Invited</b> ICGY150	Masahiro	Tomamoto	Ultra-thin Glass : Possibility and Most-advanced Technology
ICGY300	Jakob	König	Foamed Glass – A Sustainable Load-bearing Insulation Material

ICGY119	Erik	Muijsenberg	New Age of Industry 4.0 for Glass Melting
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<b>26 (Wed) Room B AM</b>	<b>Innovative Glasses and Processes for Radioactive Waste Management (TC05)</b>		
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ID	Presenter		Title
<b>Invited</b> ICGY127	Richard	Pokorny	Mathematical Modeling of Batch-to-glass Conversion in Electric Melters for Nuclear Waste Vitrification
ICGY077	Donna Post	Guillen	Sensitivity Study of Foaming Behavior during Vitrification of Simulant Tank Waste
ICGY242	Takuhiro	Miyawaki	High-temperature X-ray CT Observation of Vitrification of Simulated Borosilicate Waste Gasses with High-loading Capacity of HLW
<b>Invited</b> ICGY374	Josef	Matyas	Crystal tolerant HLW Glasses: Towards High Waste Loading in Borosilicate Glasses
<b>Invited</b> ICGY184	Tsuyoshi	Usami	Formation of Acicular Crystal of Ruthenium Oxide in Vitrification Process
ICGY197	Hao	Gan	Phase Stabilities of Noble Metals Ru, Rh and Pd and Implications for Vitrification of High Level Nuclear Wastes
ICGY186	Chong	Zhao	Low-Melting Lead Borate Glasses for Immobilization of Technetium
ICGY322	Mio	Midorikawa	Solubility and Structural Characteristics of Rhenium in Borosilicate Waste Glasses

<b>26 (Wed) Room B PM</b>	<b>Innovative Glasses and Processes for Radioactive Waste Management (TC05)</b>		
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ID	Presenter		Title
ICGY024	Cheong Won	Lee	Immobilization of Spent Nuclear Fuel by Vitrification
ICGY264	Fuminori	Sato	A Basic Research on the Applicability of Iron Phosphate Glass for Low Level Radioactive Liquid Waste
ICGY364	Yuri	Tajimi	Local Structural Analysis around Zr and Cs in Iron Phosphate Glasses
ICGY187	Wei	Zhao	Chloride Dissolution in Aluminosilicate Glasses
ICGY346	Peter	Lichvár	The Suppress Evaporation of Volatile <sup>137</sup> Cs from Liquid Radioactive Waste in the Thermal Treatment Process -Vitrification.
ICGY185	Kai	Xu	Vitrification of Nuclear Waste with Leaded CRT Glass

ICGY207	Kazuyoshi	Uruga	Chemically Durable Sulfophosphate Glass for Radioactive Waste Immobilization
ICGY037	Toru	Sugawara	Thermodynamic Optimization of Phase Separation of Molybdenum Phase in High-level Waste Glass
ICGY270	Ryo	Souma	Effects of Average Bonding Number and the Non-bridging Oxygen Content on the MoO <sub>3</sub> Solubility and Chemical Durability of Borosilicate Glasses

**26 (Wed) Room C AM Glasses for 21st Century Photonic Technologies (TC20)**

ID	Presenter		Title
<b>Invited</b> ICGY372	Jonathan Cave	Knight	Optical Fibres for the Future: Why Hollow Core Fibres might be Best
ICGY120	Xin	Jiang	Advanced Fabrication of Nanostructured Germanate and Tellurite Optical Fibres
ICGY307	Tomokatsu	Hayakawa	Glass Structures and Linear/Nonlinear Optical Properties of Silver Tellurite Glasses
ICGY361	Shifeng	Zhou	Multicomponent Glass and Glass Fiber as Scintillator for Radiation Detection
ICGY035	Maurizio	Ferrari	Photons Management by Glass-derived Confined Structures
<b>Invited</b> ICGY015	Alicia	Duran	Oxyfluoride Glass-ceramics: Looking for 21st Century Photonic Materials
ICGY210	Yang	Liu	Enable Ultra-Broadband Random Lasing with Amorphous Media
ICGY070	Tetsuo	Kishi	Compositional Modification in Alkaline-earth Aluminosilicate Glasses by the Migration of a Platinum Microsphere due to Continuous-wave-laser Irradiation
ICGY094	Nie Lan	Jian	Preparation and Existing States of La/Al Co-Doped Quartz Powders

**26 (Wed) Room C PM Interaction between Glass Fiber Science and Technology (TC28)**

ID	Presenter		Title
<b>Invited</b> ICGY144	Richard K.	Brow	Two-point Bend Studies of the Failure Characteristics of Glass Fibers
<b>Invited</b> ICGY252	Yuanzheng	Yue	GlassFiber Forming and Relaxation
ICGY249	Minoru	Tomozawa	Surface Stress Relaxation of Glass Fibers

ICGY147	Denis V.	Okhrimenko	Surface Reactivity and Dissolution Properties of Alumina-silica Glasses and Mineral Wool Fibers
ICGY044	Hong	Li	Alumina and Silica Sources for Continuous Reinforcement Glass Fiber Manufacturing - Melting Energy Aspect
ICGY306	Andreas	Prange	Development of Glass Compositions for Reinforcement Applications
ICGY201	Qun	Zu	Composition Design for Special Glass Fiber
ICGY167	Yuri	Vulfson	Influence of Environmental Factors on Glass Fiber Surface Properties, Morphology, and Chemical Composition

<b>26 (Wed) Room D AM</b>	<b>Electric &amp; Magnetic Functions</b>
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ID	Presenter	Title	
ICGY254	Andrea	Moguš-Milanković	Mixed Ion-polaron Glasses as New Cathode Materials
ICGY032	Tingting	Li	Improvement of Dielectric Constant by Formation of BaBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> in Glass - BaTiO <sub>3</sub> Composites
ICGY278	Nobuaki	Terakado	Fabrication of Multilayer Structure Including Spin Thermal Conductivity Film for Application to Electric-field Switching of Heat
<b>Invited</b> ICGY012	Steve W.	Martin	Fast Ion Conducting Glasses: Towards Safer and Longer Lasting All Solid State Lithium and Sodium Batteries
<b>Keynote</b>	Masahiro	Tatsumisago	Amorphous-Based Electrolyte and Electrode Materials in All-Solid-State Lithium Batteries
ICGY203	Yusuke	Daiko	Proton Implantation and In-situ Creep Behavior for Phosphosilicate Glasses Monitored Utilizing an Electrochemical Indenter
ICGY221	Yongzheng	Ji	Crystallization of the Na <sub>2</sub> FexNi <sub>1-x</sub> P <sub>2</sub> O <sub>7</sub> Glass and Ability of Cathode for Sodium Ion Batteries

<b>26 (Wed) Room D PM</b>	<b>i) History ii) Durability, Analysis, and Pharma Packaging</b>
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ID	Presenter	Title	
ICGY007	Jianyong	Guo	A New Style of Contemporary Inside Painting of Glass Sculptures
ICGY053	Radchada	Buntem	Study on the Elemental Compositions of Ancient Glass Beads from Central Thailand
<b>Invited</b> ICGY063	Massimo	Guglielmi	The Problem of "Delamination" in Pharmaceutical Glasses



<b>Invited</b>	ICGY059	Daniele	Zuccato	TC12 "Pharma Packaging": A Round Robin Activity Looking for a Delamination Propensity Predictive Test.
	ICGY304	Tina	Waurischk	Sub-critical Crack Growth in Hydrous Silicate Glasses
	ICGY216	Ekarat	Meechoowas	Applied the Standard Method to Indicate and Improve the Weathering Resistance of Soda-lime Silicate Glass
	ICGY303	Vallepu	Ramesh	Evaluation of Optical Properties and Structural Defects in Sintered Silica Glass

**26 (Wed) Room E AM Crystallisation & GCs**

ID	Presenter		Title	
ICGY298	Atiar Rahaman	Molla	Use of Crystallization Kinetic Studies for Controlled Crystallization of Glasses for Synthesis of Transparent Glass-ceramics: A Case Study for Ferroelectric Glass-ceramics	
ICGY025	Sohei	Sukenaga	Wettability Induced Change in Crystallization Behavior of Lithium Disilicate Liquids on Metallic Substrates	
ICGY287	Ji-Yeon	Baek	The Effect of Thermal History on Glass and Melt Structures and Its Crystallization Mechanism Based on Quasi-crystal Model.	
ICGY060	Lars	Ortmann	Influence of Al <sub>2</sub> O <sub>3</sub> on Solubility and Crystallization in Silica Glasses	
ICGY093	Alexander	Karamanov	Structure and Properties of Sintered Glass-ceramics with Attractive Appearance from Industrial Wastes	
<b>Invited</b>	ICGY345	Ralf	Mueller	Sintering and Foaming of Silicate Glass Powders
<b>Invited</b>	ICGY373	Ana Candida M.	Rodrigues	Crystallization Behavior of Precursor Glasses and Properties of Nasicon-structured Glass-ceramics.
	ICGY075	Wolfgang	Schmidbauer	Glass Ceramics as Solid Electrolytes for Lithium Based Solid States Batteries
	ICGY118	Tsuyoshi	Honma	Formation of Bismuth Metal Particles in Bismuth Borate Glass

**26 (Wed) Room E PM Crystallisation & GCs**

ID	Presenter		Title	
<b>Invited</b>	ICGY140	María Jesús	Pascual Francisco	Crystallization and Optical Properties of KLaF <sub>4</sub> Transparent Glass-ceramics
	ICGY211	Takayuki	Komatsu	Crystal Growth Direction and Rotation in Crystals Patterned by Laser in Glasses

ICGY020	Geng	Lin	Optical Properties of Lead Selenide Quantum Dots in Glasses Fabricated by Femtosecond Laser Irradiation
ICGY097	Gao	Yuan	Two-phase Crystallization and Dopant Distribution in Glass Ceramics to Control Luminescence Color
ICGY343	Kenji	Shinozaki	Upconversion luminescence of Er <sup>3+</sup> Ions in New Transparent Glass-ceramics with BaF <sub>2</sub> Nanocrystals in BaF <sub>2</sub> -ZnO-B <sub>2</sub> O <sub>3</sub> System and Formation of BaF <sub>2</sub> -like Migration in the Glass
ICGY336	Markus	Rampf	Effect of P <sub>2</sub> O <sub>5</sub> on the Crystallization of Quartz in the SiO <sub>2</sub> -Li <sub>2</sub> O-K <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -MgO-CaO Glass System
ICGY348	Duangrudee	Chaysuwan	Coloration of Machinable Mica-based Glass-ceramic as Restorative Dental Materials
ICGY001	Yoshihiro	Takahashi	Vanadium Dioxide-dispersed Glass toward All-solid Phase Change Material

**26 (Wed) Room F AM Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)**

ID	Presenter		Title
ICGY006	Trond S.	Ingebrigtsen	Structural Predictor for Nonlinear Sheared Dynamics in Simple Glass-forming Liquids
ICGY261	Daniel Roberto	Cassar	Predicting Properties of Multicomponent Oxide Glasses by Artificial Neural Networks
ICGY090	Akira	Takada	New Theoretical Model for Statistical Thermodynamics in Non-equilibrium States
ICGY371	Alex C	Hannon	The Bond Valence Method Applied to Glass Structure
ICGY359	Yohei	Onodera	Structure of Disordered Materials Characterized by Persistent Homology
<b>Invited</b> ICGY299	Hiroyo	Segawa	Studies of Reaction between SiAlON Phosphor and Glass Matrices for LED Applications
ICGY138	Liyan	Zhang	Statistical Approach to Modeling Relationships of Composition – Structure – Property: Alkaline Earth Phosphate Glasses
ICGY022	Alex	Priven	Could Glass Property Data Give More Structural Insights?
ICGY218	Sang Yeol	Shin	Assessing Retro-reflectance of Mixed Glass Beads with Different Refractive indexes for Use in Road Marking Applications

**26 (Wed) Room F PM Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)**

ID	Presenter		Title
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<b>Invited</b>	ICGY136	Liping	Huang	Indentation Behavior of Glass Studied by Molecular Dynamics Simulation
	ICGY045	Gustavo Alberto	Rosales-Sosa	Finite Element Analysis (FEA) of Spherical Indentation in Silica Glass and Measurement of Densification Distribution by Means of Raman Spectroscopy
	ICGY217	Jun Ho	Lee	Infrared Transmission Edge and Refractive Index Dispersion of Quaternary Ge-Sb-S-Se Glass
	ICGY331	Tatsuya	Mori	Boson Peak Dynamics of Densified Silica Glass Probed by Terahertz Time-domain Spectroscopy
<b>Invited</b>	ICGY068	Madoka	Ono	Void Structure in Silica Glass Observed with Positron Annihilation Lifetime Spectroscopy – The Effect on its Optical Properties
	ICGY208	Naoyuki	Kitamura	Viscoelastic Study of Sodium Silicate and Borosilicate Glasses by Compression Creep and Dynamic Viscoelastic Measurements around Deformation Temperature
	ICGY033	Hiroshi	Kobayashi	Dissipative Structure as the Final Steady State of an Ultralow-expansion Glass after Prolonged Aging

**ICG Annual Meeting 2018 Poster Session****25 (Tue) Poster Session PM**

ID	Presenter		Title
<b>Glasses for 21st Century Photonic Technologies (TC20)</b>			
ICGY334	Keizo	Sato	An In-flight Melting Method": New Approaches for Glass Production and Amorphous science (2); Development of New Functional Materials
ICGY335	Keizo	Sato	An In-flight Melting Method": New Approaches for Glass Production and Amorphous Science (3); Comparing In-flight Allasses and Float-process Soda-lime Glasses
ICGY308	Tomokatsu	Hayakawa	Wavelength Conversion Properties of Tb <sup>3+</sup> , Yb <sup>3+</sup> Codoped ZrO <sub>2</sub> -SiO <sub>2</sub> Nanocrystalized Glasses
ICGY271	Tomoya	Konishi	Photoluminescence and Structure of Copper and Tin-doped Glasses
ICGY267	Hirokazu	Masai	Luminescence of Ce-doped Oxide Glasses
ICGY329	Gaurav	Gupta	Vis-MIR Transparent Titanotellurite Glass and Glass-ceramics for Photonic Applications
ICGY248	Xiangdong	Liu	Modification of Phosphate Glass by CW-laser Induced Metal Microsphere Manipulation
ICGY354	Petr	Kostka	Tellurite Oxy-chloride Glasses Modified by V <sub>2</sub> O <sub>5</sub> Addition
ICGY353	Petr	Kostka	Energy Transfer between the Host Glass and Rare Earths in Tellurite and Antimonate Glasses
ICGY237	Kaya	Nagao	Effect of Melting Time and Heat Treatment on Emission Properties of Copper (I) and Tin (II)-doped Glass
ICGY227	Hitomi	Nakamura	Preparation of YAG:Ce Nanophosphor Dispersed in Mesoporous Silica Glass
ICGY132	Georgiy	Shakhgildyan	Influence of Gold Nanoparticles on the Optical Properties Au-Eu Co-doped Phosphate Glasses
ICGY111	Mitsuru	Kojima	Relationship between Glasses Local Structure and Photoluminescence Properties of Alkali Silicate Glasses
ICGY061	Sergei	Firstov	Features of Photobleaching and Recovery Phenomena in Bismuth-doped Optical Glass Fibers

**Nanostructures**

ICGY091	Nikolay	Nikonorov	Contribution of Silver Molecular Clusters to UV-induced Refractive Index Changes in Photo-thermo-refractive Glass: Mechanism and Applications
ICGY085	Takumi	Ito	Ion Elution Behavior from Glass in the Formation of a Hierarchical Nanoporous Layer Glass.
ICGY023	Erika	Tabata	Blurring Behavior of a Fingerprint on Hierarchical Nanoporous Layer glass.
ICGY223	Keisuke	Matsubara	Porous Silicon Prepared from Bulk Porous Silica Glass via Magnesiothermic Reduction
ICGY289	Ryosuke	Seto	Synthesis of Poly(phenylsilsesquioxane) Glasses with Low Melting Temperatures by Cosolvent-free Hydrolytic Polycondensation via Aging
ICGY112	Yuta	Osawa	Influence of Nitriding Temperature on Density and Nitrogen Content in Si-O-N Glasses Prepared by the Sol-gel Method

### Coatings on Glass

ICGY296	Junichi	Minato	Precision Improvement of X-ray Residual Stress Measurement for Textured Thin Films on Glass Substrates
ICGY105	Kazuhiro	Kato	Microstructure Control of Functional Thin Films Deposited on Glass by Magnetron Sputtering
ICGY145	Hui	Wang	Effect of Temperature on Optical Properties of CeOX Film Being Irradiated By Co <sub>60</sub> Prepared by RF Magnetron Sputtering
ICGY269	Keisuke	Murata	Diamond-dispersed Sol-gel Derived Composite Coating for Transparent Glass Screen
ICGY155	Toshihiro	Hirano	Development of Anti-fog Transparent Coatings for Mirrors by Wet Chemical Processing
ICGY230	Usanee	Pantulap	Transparent Hydrophobic of TEOS/OTES Hybrid Material by Sol-gel Processing
ICGY171	Tomoji	Ohishi	Preparation and Aas Barrier Characteristics of Polysilazane-derived Silica Coatings on Organic Films by Photo-irradiation
ICGY282	Keita	Yasumoro	A Hierarchical Nanoporous Layer Glass with a PSS-free PEDOT Conductive Film.
ICGY095	Hirofumi	Inada	Effect of Compositions of Lead-free Frit on Color Tone and Microstructure of Red Overglaze Enamel Decorations on a Glazed Porcelain Surface

### Glass Production Technology

ICGY358	Fernanda A. Sampaio	Da Silva	The Importance of the Use of Glass Packaging in the Food Sector: An Environmental and Public Health Issue
ICGY005	Chihiro	Sakai	Quantitative Analysis of Alpha-beta Phase Transformation of Nickel Sulfide

ICGY080	Kenji	Oda	Uniformity and Homogeneity of Glass Melts in a Glass Tank Furnace
ICGY339	Marcela	Jebava	Energy Distribution and Controlled Glass Melt Flow in Melting Space
ICGY156	Tsuyoshi	Fujii	Electrical/Heat Transfer/Fluid Co-simulation for Electrical Heated Platinum Instruments
ICGY338	Miroslava	Vernerová	The Study of Gas Release Phenomena in Soda-lime-silica Glass
ICGY065	Atsushi	Takagi	Evaluation of Surface Tension of Molten Glass by the Maximum Bubble Pressure Method and the Ring Method
ICGY290	Tomoyoshi	Nakamuro	Processing Technology for Glass Tube Sealing with LASER Device
ICGY265	Masahiro	Ishikawa	Introducing Laser Processing and ACT Contributing to Glass-Melting Industry
ICGY225	Kazuto	Nakatsuka	The New Forming Process for Large Diameter Glass Tube under Low Flux
ICGY179	Masashi	Nakamura	Negative-CTE Spherical Filler with High Transmittance
ICGY263	Satoshi	Miyasaka	DC-Voltage Application to Molten Glass Floated on Molten Tin; A Promising Technique to Modify Glass Surfaces
ICGY009	Takahiro	Murata	Volatilization from Lithium Fluorophosphate Glass Scintillator during Melting
ICGY220	Hiroto	Fujisawa	Effect of Basicity on the Dissolution Behavior of Constituent Elements in Municipal Waste Molten Slag
<b>Innovative Glasses and Processes for Radioactive Waste Management (TC05)</b>			
ICGY314	Atsunobu	Masuno	Local Structure Analysis of Nuclear Waste Glasses
ICGY078	Kosuke	Jin	Thermodynamic Optimization of $\text{SiO}_2\text{-B}_2\text{O}_3\text{-CaO-Na}_2\text{O-MoO}_3$ System
ICGY160	Milene	Delaunay	Nuclear Waste Vitrification Process Development: The French Tools at the CEA Marcoule Site
ICGY281	Fumiaki	Nakao	Volatilization Behavior of Cesium at Melting Treatment of Soil
ICGY233	Masataka	Oguro	Selective Recovery of Cs from Simulated Vitrified Waste Glass using Li Bath Method
ICGY168	Hiroyuki	Inoue	Separation of the Elements from Simulated High-Level Radioactive Waste Glass by the Addition of Oxides

ICGY340	Riku	Shinjo	Extraction of Long-Lived Fission Products from Borosilicate Glass with pseudo High-level Radioactive Nuclear Wastes using Ion-Exchange Extraction Method
ICGY028	Mio	Midorikawa	Extraction of Pd from Radioactive Waste Glass by Ion Exchange
ICGY148	Richard K.	Brow	Iron Phosphate Glasses for Encapsulating Mo-rich Nuclear Wastes
ICGY081	Toshiaki	Ohira	Crystallization of Molybdenum Phase in High-level Waste Glass under Slow Cooling
ICGY072	Takashi	Okada	Element Distribution in Separation Process of Long-lived Fission Products from Simulated High-level Vitrified Wastes
ICGY066	Tetsuji	Yano	Combinatorial Approach on the Development of Glass with High-Loading Capacity of High-Level Radio-Active Wastes from Reprocessing of Spent Fuel
ICGY324	Takahiro	Goto	Corrosion Behavior of Simulated High-level Waste Glass in the Presence of Carbon Steel

### History

ICGY257	Aleksandra Ewa	Nowicka	The Study of the Influence of Gypsum Binders Used for Glass-metal Connections in Conservation Works on the Glass Surface Degradation.
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### Bioglasses

ICGY107	Nuttawan	Sawangboon	Cobalt-containing Na <sub>2</sub> O-CaO-P <sub>2</sub> O <sub>5</sub> Polyphosphate Glasses for Medical Applications
ICGY108	Nuttawan	Sawangboon	Influence of Network Former to Modifier Ratio on Structure and Dissolution Behaviour of Silicophosphate Glasses

### Durability, Analysis, and Pharma Packaging

ICGY042	Branislav	Hruska	Raman Spectroscopic Study of Heavy Weathered Surface of Barium Crystal Glass.
ICGY235	Atsushi	Ihira	Effect of Addition of RO, R' <sub>2</sub> O on Water Durability and Formation of Reaction Layer in Iron Phosphate Glasses (R = Ca, Ba, R' = Li, Na, K)
ICGY224	Haruka	Himei	Water Durability Estimation for Sulfide Glasses Based on M-Sb-S and M-Sb-S-CsCl (M=Ge and Ga)
ICGY051	Sei	Fukushima	HRCXS - The Powerful Bulk Analysis Method for the Chemical State in Glasses
ICGY052	Sei	Fukushima	NewSUBARU BL05 - A Industrial Analysis Beam Line in Soft and Tender X-ray Region.
ICGY206	Yoshitaka	Saijo	Determination of Trace Copper in Glass by ICP-AES after Pretreatment using Solid Phase Extraction Column

ICGY234	Yuuichi	Hamazaki	Corrosion Behavior of CaO–Al <sub>2</sub> O <sub>3</sub> –SiO <sub>2</sub> Glasses in Alkaline Aqueous Solution
<b>Interaction between Glass Fiber Science and Technology (TC28)</b>			
ICGY320	Shinji	Nishibori	Visible Exfoliation Prevention Method of Concrete Structure using Glass Fiber
ICGY293	Napaporn	Vaiborisut	Investigation of Liquidus Temperature and Crystallization of Basaltic Glass by Thermal Analysis
<b>Electric &amp; Magnetic Functions</b>			
ICGY204	Yusuke	Daiko	Various Ion Emissions from Nano-sharpened Glass Fiber Emitters
ICGY161	Manari	Shigeno	Mechanochemical Synthesis and Characterization of Li <sub>2</sub> O–B <sub>2</sub> O <sub>3</sub> –SiO <sub>2</sub> –P <sub>2</sub> O <sub>5</sub> Glass Electrolytes with the Addition of Lithium Salts
ICGY162	Takuya	Kimura	Mechanochemical Synthesis and Characterization of Li <sub>3</sub> SbS <sub>4</sub> Glass Electrolytes for All-solid-state Batteries
ICGY209	Akira	Nasu	Mechanochemically Synthesized Amorphous Na <sub>2</sub> TiS <sub>3</sub> as Electrode Material for All-Solid-State Sodium Secondary Batteries
ICGY086	Kentarou	Okada	Magneto-optical Properties of Transition Metal-containing Glasses Prepared by Containerless Processing
ICGY286	Masakazu	Aoyagi	Preparation of Highly Terbium-oxide-containing Aluminate Glass Microspheres by the In-Flight Melting Method and their Magnetic Properties
<b>Crystallisation &amp; GCs</b>			
ICGY370	Tetsuo	Kishi	Precipitation of Oriented Nanocrystals of Barium Ferrite from BaO–Fe <sub>2</sub> O <sub>3</sub> –B <sub>2</sub> O <sub>3</sub> Glass by a Continuous-wave Laser Heating
ICGY367	Ramesh	Karuppannan	Phase Change Properties of Se Doped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub>
ICGY285	Yoshihiro	Takahashi	Second-harmonic Generation from Laser-crystallized Glass in SrO–TiO <sub>2</sub> –SiO <sub>2</sub> System
ICGY284	Yoshihiro	Takahashi	Optically-stimulated Luminescence of ZrO <sub>2</sub> Powder toward Human-body Temperature Sensing
ICGY133	Georgiy	Shakhgildyan	Highly Robust Transparent Glass-ceramics in Mg–Al–Si System
ICGY375	María Jesús	Pascual Francisco	Strengthening and Residual Stress of Glass-ceramic Sealants for SOFC
ICGY369	Takahiro	Suzuki	In-situ High-temperature Analysis on Astructure Alteration of Magnesium Aluminosilicate Glass during Cooling Process



ICGY333	Tatsuya	Fujii	Influence of Addition of $Y_2O_3$ on Crystallization Behavior of $ZnO-Al_2O_3-SiO_2$ Glasses
ICGY327	Ryoichi	Sugiura	Properties of $ZnO-Al_2O_3-SiO_2-B_2O_3-ZrO_2$ Glass Ceramics
ICGY326	Kenta	Miyamoto	Adhesion between $Li_2O \cdot 2SiO_2$ Glass and SUS430 Stainless Steel
ICGY294	Hiroki	Tsuchiya	Synthesis of Ferroelastic $\beta'$ - $Gd_2(MoO_4)_3$ Bulk Glass-ceramics by Melt Cooling and their Characterization
ICGY164	Keisuke	Inage	Mechanical Properties of Hexagonal $CaAl_2Si_2O_8$ Precipitated Glass-ceramics
ICGY305	Apirat	Theerapapvisetpong	Effect of $La_2O_3$ on Thermal and Electrical Properties of Åkermanite and Diopside based Glass-ceramic Sealant for SOFCs
ICGY279	Kaito	Ryo	Crystallization Behavior and Electrochemical Performance of $Na_2O-TiO_2-SiO_2$ Glass and Glass-ceramics for Sodium Ion Battery
ICGY274	Miyuri	Terasawa	Formation of Transparent Glass-ceramics in $Na_2Mn_{0.5}Fe_{0.5}SiO_4$ Glass

#### Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)

ICGY036	Ksenia Vladimirovna	Vlasova	A Simple Scheme for Absorption Measurement of High-transparency ( $10^{-7} \text{ cm}^{-1}$ ) Fused Silica.
ICGY048	Petr	Nemec	Co-sputtered Ge-Sb-Te Thin Films
ICGY062	Yasuyuki	Takimoto	Structural Investigation of Alkali Silicate Glasses using X-ray and Neutron Diffraction
ICGY098	Keita	Hamabe	Synthesis and Characterization of $Li_2S-P_2S_5-MS$ (M = Ca, Sr, Ba) Glasses
ICGY158	Daichi	Morita	In-situ Structural Observation of Aluminosilicate Glasses at High Pressure
ICGY170	Tomonori	Ueno	Investigation of Glass Structure of $Na_2O-Al_2O_3-SiO_2$ System using Photoluminescence of $Eu^{3+}$ Ions
ICGY173	Jun	Matsuoka	Infrared Absorption Spectra of Sodium Borate and Borosilicate Melts in Relation to their High Temperature Structure
ICGY238	Valérie	Montouillout	Follow-up of the Hydration of Granulated Blast Furnace Slags: A Multi-scale Structural Characterization
ICGY255	Daniel R.	Neuville	How Alkaline and Earth-alkaline Elements can Change Role in Glasses and Melts? Implication for Nucleation Processes and Redox Change?
ICGY256	Mizuki	Watanabe	Correlation between Basicity and Structure of Borate Glasses

ICGY268	Hirokazu	Masai	X-ray Absorption Fine Structure Analysis of Tin in Oxide Glass
ICGY325	Maiko	Masubuchi	Boson Peak Dynamics of Amorphous Silicon Monoxide Investigated by Terahertz Time-domain Spectroscopy
ICGY342	Kenji	Shinozaki	Fluoride Layer-Like Structure in New Fluoroborate Glasses with Highly Efficient Photoluminescence
ICGY356	Yaroslav	Shpotyuk	Sb Incorporation Effects in Ga-modified As-Se-Te Glass
ICGY049	Yuki	Yokota	Coloration Mechanism of Glass for Turn Signals
ICGY106	Haruhiko	Yoshino	Nanoscale Local Stress Distribution of Nano Phase Separated Glass by STEM-CL
ICGY152	Keita	Suzuki	Optical Properties of Tin Containing Silicate Glasses
ICGY153	Takaya	Okamoto	Mechanical Properties in Heavy Metal Containing Oxide Glasses with small photoelastic constant
ICGY199	Kazuki	Onoyama	Precise Measurement of the Thermal Diffusivity around the Glass Transition Temperature by Considering Radiative Heat Transfer
ICGY236	Hiroki	Nishimura	Surface Tension Measurements of $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2$ and $\text{CaO-Al}_2\text{O}_3\text{-FeO}_x\text{-SiO}_2$ Glass Melts with the Range of $1 \leq x \leq 1.5$ using Maximum Bubble Pressure Method
ICGY247	Kae	Fujimoto	Basicity of Alkali Borate Glasses by using Various Evaluation Methods
ICGY277	Nobuaki	Terakado	Non-destructive Stress Evaluation by Micro-Raman Spectroscopy and X-ray Diffraction in Chemically Strengthened Glass
ICGY330	Mikiya	Furukawa	Glass Formation and Properties of the Glasses Based on Ge, As, Sb-free Sulfide Systems for Infrared Applications
ICGY355	Girley Ferreira	Rodrigues	Characterization of the Magnetic Properties of Vitreous Material Elaborated with Slag
ICGY183	Masahiro	Ikeda	High-Temperature Structural Relaxation and Fragility in Glass-Forming Liquids
ICGY194	Masato	Inoue	Development of Liquidus Temperature Measurement System under Atmosphere Control
ICGY288	Motoshi	Iwanaga	Glass Forming Region and Thermal Stability of $\text{SrO-Al}_2\text{O}_3\text{-ZrO}_2$ System Prepared by In-Flight Melting Technique
ICGY039	Yuya	Yamamoto	Study of Boron Oxide Anomaly in Sodium Borate Glasses by using Classical Molecular Dynamics Simulation
ICGY318	Yasuhiko	Benino	Molecular Dynamics Simulation of Anisotropic Glasses in Calcium Phosphate System

ICGY341	Yoshiki	Ishii	Local Structures and Transport Properties of Alkali and Alkaline-Earth Aluminosilicates obtained by DFT-based MD Calculations
ICGY347	Taketoshi	Taniguchi	Structure and Mechanical Property of Water-containing Alkali-aluminosilicate Glass by Molecular Dynamics Simulation

#### Glasses under Elevated Pressure -Local Versus Mean-field Compaction- (TC06)

ICGY245	Malwina	Stepniewska	Indentation of a Melt-Quenched Zeolitic Imidazolate Framework Glass
ICGY067	Keisuke	Asai	In-situ Evaluation of Stress Distributions and Cracking Behavior in Silica and Soda-lime Glasses
ICGY177	Satoshi	Yoshida	Indentation-induced Transient and Permanent Structural Changes of Glass Probed by Raman Spectroscopy
ICGY241	Hiroki	Nakamura	Stress Behavior on Glass Surface by Ball Drop Impact
ICGY243	Sho	Nagai	Fabrication of GPa-class Strengthened Soda Lime Sheet Glass by 3-step Field-assisted Ion Exchange Method.

#### Advanced Surface Characterization of Multicomponent Glasses (TC19)

ICGY178	Naoya	Hirata	Two-step Preparation and Characterization of Chemically Tempered Soda-lime Silicate Glass
ICGY043	Maria	Chromcikova	Thermodynamic Model and Identification of the Surface-active Components of the Glass-forming Melts.
ICGY213	Yin	Liu	Direct Bonding of Bioactive Glass Film on Titanium Plate at Room Temperature
ICGY054	Tadanori	Hashimoto	Fe <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> Glasses with Compatibility between pH Responsivity and Hydrophobicity