

ICG Annual Meeting 2018 (Yokohama, Japan)

ICG Annual Meeting 2018 Plenary Talk

24 (Mon) Room A AM

ID	Presenter	Title
Plenary 1A0920-P Akio	Makishima	Scientifically Really Important or Technologically Really Important
Plenary 1A1020-P 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
Keynote 1A1350-K Reinhard	Conradt	Prospects and Physical Limits of Innovative Processes and Technologies in Glass Melting
Invited 1A1440-I Irene Mona	Peterson	Measuring Batch Reactions Using In-situ Neutron Diffraction
1A1510 Christian	Roos	Investigations of Batch-to-melt Conversion in SLS-glasses under industry-near Conditions
1A1530 Yoji	Doi	Melting Behavior of Carbonate-free Glass Batch - Can We Reduce Initial Bubbles?
Invited 1A1610-I Hans	van Limpt	Impact of Glass Minerals on Glass Quality and Melting Efficiency
1A1640 Chihiro	Sakai	Advanced Technology for Heat Soak Test (HST) of Tempered Glass
1A1700 Kimiyasu	Okumura	Development of Evaluation Method for Bubble Gas Change in Molten Glass
Invited 1A1740-I Stefano	Ceola	Integrated Approach to Glass Container Defect's Analysis
Invited 1A1810-I Ryunosuke	Kuroda	Fused AZS and the Glass Defects

24 (Mon) Room B PM

- i) Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)
- ii) Innovative Glasses and Processes for Radioactive Waste Management (TC05)

ID	Presenter		Title
Invited 1B1350-I	Xianyu	Xue	Dissolution Mechanisms of H ₂ O and CO ₂ in Silicate Melts (Glasses): Information from NMR Spectroscopy
1B1420	Franck	Fayon	Probing Structural Specificities of Phase Separation Phenomena in BaBS {BaO-B ₂ O ₃ -SiO ₂ } System by High Resolution NMR Spectroscopy
1B1440	Qiuju	Zheng	Liquidus Temperatures of Stone Wool Compositions
Invited 1B1500-I	Doris Charlotte	Möncke	Structure Property Correlation of Glasses beyond the Covalent Network, - an IR and Raman Spectroscopic Study
1B1530	Masahiro	Shimizu	Experimental, Molecular Dynamics, and Theoretical Approach to the Soret Effect in Sodium Borate Glass Melts
Keynote 1B1610-K	Stephane	Gin	How Silicate Glasses are Protected by Surface Layers?
1B1700	Laurence	Galoisy	Zr ⁴⁺ as Probe of Two Layers in Alteration Gel of Simplified Nuclear Glasses
Invited 1B1740-I	Katsuhiko	Ishiguro	Development of the NUMO Safety Case for Geological Disposal and Performance Assessment of a Vitrified High-level Radioactive Waste
Invited 1B1810-I	Kayo	Sawada	Studies on the Characteristics of Alumina-rich Borosilicate Glass Regarding the Effect on its Leachability
1B1840	Koichiro	Takao	Rapid and Significant Elution of Various Elements from Borosilicate Glass Matrix in Acidic Condition towards Retrieval of Radionuclides from Vitrified Nuclear Wastes

24 (Mon) Room C PM**Glasses for 21st Century Photonic Technologies (TC20)**

ID	Presenter		Title
Invited 1C1350-I	Kathleen	Richardson	Rethinking Infrared Optical Design Strategies: Tailorable Property Solutions from Novel Infrared Materials and Processing Routes
Invited 1C1420-I	Virginie	Nazabal	MWIR Emissions from 3 to 8 μm of Rare Earth Doped Chalcogenide Glasses
1C1450	Long	Zhang	Developments and Challenges of Mid-Infrared Materials for Optical Applications
1C1510	Kohei	Yoshimoto	2.7-μm Mid-infrared Emission in Highly Er ³⁺ -doped La ₂ O ₃ Ga ₂ O ₃ Glasses Prepared using an Aerodynamic Levitation Technique
1C1530	Yong Gyu	Choi	Enhancing Adhesion between Chalcogenide Glass and Diamond-like Carbon
1C1610	Zheming	Zhao	A Chalcohalide Glass Fiber with High Nonlinearity but Low Material Zero-dispersion via Extrusion

Invited	1C1630-I	Jong	Heo	Light-induced Precipitation of Quantum Dots in Glasses
	1C1700	Georgiy	Shakhgildyan	Femtosecond Laser-induced Modification of Silver and Semiconductor Doped Oxide Glasses
	1C1740	Tetsuo	Kishi	Compositional Modification in Alkaline-earth Aluminosilicate Glasses by the Migration of a Platinum Microsphere due to Continuous-wave-laser Irradiation
	1C1800	Sergei	Firstov	Features of Photobleaching and Recovery Phenomena in Bismuth-doped Optical Glass Fibers

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

ID	Presenter		Title
Invited	1D1350-I	Seong H. Kim	Vibrational Spectroscopic Study of Silicate Network Structure and Hydrated Species in Glass
	1D1420	Shin-ichi Amma	Surface Layer Formed through Acid Treatment of Aluminosilicate Glasses
	1D1440	Yuichi Yamamoto	Precise Analysis of Mobile Ions and Silanol Concentration in Glass Surface
Invited	1D1500-I	Joachim Deubener	Alterations of Glass Surfaces and Functional Coatings for Energy Conversion Systems
	1D1530	Guilherme N.B.M. de Macedo	Lateral Hardness and the Scratch Resistance of Glasses in the Na ₂ O-CaO-SiO ₂ System
	1D1610	Daisuke Inaoka	Characteristics of Ceramic Targets in DC Magnetron Sputtering Process
	1D1630	Kaihu Fu	The study of Adaptable Amorphous Carbon Films Applied on As ₄₀ Se ₆₀ Glass
Invited	1D1650-I	Jooho Moon	Solution-processed Earth-abundant Chalcogenide Materials on Glass for Photoelectrochemical Water Splitting
	1D1740	Hiromitsu Kozuka	Sol-gel Transfer Technique for Preparing Ceramic Thin Films on Plastics
Invited	1D1800-I	David Grosso	Sol-gel Metal Oxide Functional Coatings and Patterns Elaborated through Dip-coating and Nanoimprint Lithography
Invited	1D1830-I	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)
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ID	Presenter		Title
Invited 1E1350-I	Anita	Zeidler	The Atomic Scale Structure of Oxide Glasses under Pressure
Invited 1E1420-I	Daisuke	Wakabayashi	Seamless Structural Transformations of SiO ₂ Glass under High Pressure
1E1450	Linfeng	Ding	Pressure Dependence of Density and Structural Relaxation of Glass Near the Glass Transition Region
Invited 1E1510-I	Morten M.	Smedskjaer	Densification and Cracking Behavior of Modifier-Free Mixed Network Glasses
1E1610	Yoshinari	Kato	Densification Distribution Measurement below Vickers Imprint in Silica Glass by a Combination between Raman Spectroscopy and HF Etching
Invited 1E1630-I	Enrico	Gnecco	Surface Rippling of Silica Glass Surfaces Scraped by a Diamond Indenter
1E1700	Shigeki	Sawamura	Scratch-hardness of Glass
Invited 1E1740-I	Arun	Varshneya	The Science & Technology of Stronger Glass Products
Invited 1E1810-I	Akio	Koike	Chemically Strengthened Glass for Cover Applications
1E1840	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
Invited 1F1350-I	Philip S	Salmon	Exploring the Structure and Dynamics of Network-forming Liquids and Glasses
1F1420	Seiji	Kojima	Neutron Scattering Study of Mixed Alkali Effect of Borate Glass
Invited 1F1440-I	Emma	Barney	Developing New Potentials to Model the Structure of Multicomponent Glasses using Diffraction Data
1F1510	Yukihito	Nagashima	Analysis of Structure around Mg ²⁺ in Glasses in Na ₂ O-MgO-Al ₂ O ₃ -SiO ₂ System
1F1530	Xu	Xiaodian	Studies on Structure and Properties of Ta ₂ O ₅ /ZrO ₂ Boron Based Special Dispersion Glasses

Invited	1F1610-I	Junko	Habasaki	Molecular Dynamics Study of Enhanced and Heterogeneous Dynamics in Porous Lithium Disilicates
	1F1640	Alastair N.	Cormack	Molecular Dynamics Simulations of the Reactions of Water with CAS Glass Surfaces
	1F1700	Shingo	Urata	Molecular Dynamics Simulations on Fracture of Composite of Oxide Glasses and Nano-particles
Invited	1F1740-I	Francisco	Munoz	A Structural View of Glass Formation in Phosphate Based Systems
	1F1810	Akira	Saitoh	The Structure and Properties of Pyro Zinc Tin Phosphate Glasses
	1F1830	Hirokazu	Masai	Relationship between Structure and Physical Properties of ZnO-P ₂ O ₅ Glasses

25 (Tue) Room A AM				Glass Production Technology (with GlassTrend Seminar)
ID			Presenter	Title
Invited	2A0830-I	Pavel	Hrma	Heat Transfer to Cold Cap in Electrical Glass Melting Furnace
	2A0900	Kenji	Oda	Mathematical Modeling of Batch Melting in a Glass Tank Furnace
	2A0920	Takeshi	Yamazaki	Regenerator Furnace Design Studies Combining Simulation and Statistical Tools
Invited	2A0940-I	Noriyuki	Yoshida	Electrochemical Evaluation in Glass Melts
	2A1030	Michel	Bogaerts	Absorption of Ni and Cr at High Temperature in Low-iron Glass: Effect on Energy Consumption in Industrial Furnaces.
	2A1050	Kicheol	Kim	Redox Behavior in SnO ₂ -doped Alkali Free Aluminoborosilicate E-glass Melts
	2A1110	Hervé	Montigaud	Advanced Characterization of Float Glass Surface: Composition and Oxidation state of Sn, S and Fe.
	2A1130	Takato	Kajihara	Effect of Aluminum on Modifier Ion Migration during Heat Treatment under N ₂ /H ₂ Atmosphere in Alkali Silicate Glasses
	2A1150	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
Invited	2A1510-I	Jean-Pierre	Meynckens	The Refractories Selection, a Partnership between the Refractories Suppliers and the Glassmakers
	2A1540	Michel	Gaubil	New High Zirconia Fused Cast Refractory Solutions for Sustainable Specialty Glass Production
	2A1600	Toshiro	Tanimoto	Energy Saving Design with High Thermal Resisting and Insulating Monolithic Refractory in Container Glass Furnace
Invited	2A1620-I	Manoj K.	Choudhary	Glass through the Ages
25 (Tue) Room B AM				Innovative Glasses and Processes for Radioactive Waste Management (TC05)
ID			Presenter	Title

Invited	2B0830-I	Toshiro	Oniki	Study on Vitrification Technology for Radioactive Waste at Fukushima Daiich NPS
Invited	2B0900-I	Takahiro	Ishino	The Outline of 'Basic Research Programs of Vitrification Technology for Waste Volume Reduction'
	2B0930	Yoshiyuki	Miura	Development of High Waste Loading Glasses
	2B0950	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
Keynote	2B1030-K	Nobuyuki	Miura	Role of Vitrification in Radioactive Waste Management
	2B1120	Akira	Sakai	Nuclear Waste Vitrification – Historical Perspectives and Promising Development Approaches in the Future
	2B1140	Hidekazu	Kobayashi	Development of Noble Metals-Compatible Vitrification Melter in Tokai Vitrification Facility

25 (Tue) Room B PM	Innovative Glasses and Processes for Radioactive Waste Management (TC05)
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ID	Presenter		Title	
2B1510	Yasuo	Ayame	The Risk Reduction in Tokai Reprocessing Plant by Vitrification of High Level Liquid Waste (HLLW)	
Invited	2B1530-I	Olivier	Pinet	From HLW Vitrification to D&D Waste Vitrification
Invited	2B1600-I	Martyn	Marshall	The 'Hazmelt' Thermal Treatment Technology ? A Review of Trial Outcomes and the Potential Application of the Technology to Existing Waste-streams.
	2B1630	Hirohide	Kofuji	Vitrification Study of Used Adsorbent of the Extraction Chromatography for Am, Cm Recovery

25 (Tue) Room C AM	Glasses for 21st Century Photonic Technologies (TC20)
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ID	Presenter		Title	
Invited	2C0830-I	James	Wilkinson	Wideband Amorphous Materials for Integrated Photonic Devices
Invited	2C0900-I	Jianrong	Qiu	Active Ions Doped Glasses and Glass Ceramics for Photonic Devices
	2C0930	Jaeyeop	Chung	Optical Properties of La ₂ O ₃ Containing Novel Oxyfluoride Glasses Prepared by Containerless Processing
Invited	2C1030-I	Rolindes	Balda	Rare Earth Luminescence Dependence on Glass-ceramics Nano-structure

Invited	2C1100-I	Yumiko	Katayama	Effect of Strain on Photoluminescence Properties in (Ca,Sr)TiO ₃ :Pr ³⁺ Thin Films
	2C1130	Marcelo	Nalin	New Magnetic Glasses

25 (Tue) Room C PM Glasses under Elevated Pressure -Local versus Mean-field Compaction- (TC06)

ID	Presenter		Title
2C1520	Satoshi	Yoshida	Indentation-induced Transient and Permanent Structural Changes of Glass Probed by Raman Spectroscopy
2C1540	Malwina	Stepniewska	Indentation of a Melt-Quenched Zeolitic Imidazolate Framework Glass
2C1600	Sho	Nagai	Fabrication of GPa-class Strengthened Soda Lime Sheet Glass by 3-step Field-assisted Ion Exchange Method.
2C1620	Taketoshi	Taniguchi	Structure and Mechanical Property of Water-containing Alkali-aluminosilicate Glass by Molecular Dynamics Simulation

25 (Tue) Room D AM Bioglasses

ID	Presenter		Title	
Invited	2D0830-I	Wolfram	Hoeland	Biomedical Glass-ceramics: 39 Years of Glass-ceramic Research and 29 Years of Close Contacts to Japanese Scientific
Invited	2D0900-I	Robert	Hill	Structure and Properties of Fluoride Containing Bioactive Glasses
	2D0930	Yeongjun	Seo	Synthesis of Sol-Gel Derived Bioactive Glass Nanoparticles and Their Low-temperature Sintering
Invited	2D1030-I	Yuki	Shirosaki	Biological Activity of Siloxane Units Derived from Organic-inorganic Hybrids
	2D1100	A.D.	Anasrtasiou	Crystalline-to-amorphous Phase Transformation in Calcium Phosphate Biominerals by Doping with Different Concentrations of Fe ³⁺ -ions
	2D1120	Patricia Suemi	Sato	Preparation of Antibacterial Zinc Phosphate Glass Thin Films

25 (Tue) Room D PM Electric & Magnetic Functions

ID	Presenter		Title	
Invited	2D1510-I	Kostya	Trachenko	Exploring Analogies between Spin-glass and Liquid-glass Transitions: New Understanding of Collective Modes in Dynamically-disordered Systems.

Invited	2D1540-I	Lothar	Wondraczek	Paramagnetic Glass Fiber for Precise Non-contact Optical and Magneto-optical Probing
	2D1610	Yuko	Nakatsuka	Spin Glass Behaviour of Manganese-containing Oxide Glasses
	2D1630	Seisuke	Nakashima	Magneto-optical Faraday Effect of Waveguide Structures Fabricated Inside Silica Xerogels Containing Magnetic Nanoparticles

25 (Tue) Room E AM Nanostructures

ID	Presenter		Title
2E0850	Koichi	Kajihara	Cosolvent-free Sol – gel Synthesis of Monolithic Highly-transparent Silica – REPO ₄ Glass-ceramics with Bright Visible and Ultraviolet Photoluminescence
2E0910	Kanit	Tapasa	Sol-gel Synthesis of a Phosphate-based Glass using an Organic Acid
2E0930	Kazuyoshi	Kanamori	Transparent, Superflexible Doubly Crosslinked Polyvinylpolymethylsiloxane Aerogels and Xerogels for Superinsulators
2E0950	Katsuaki	Nakazawa	High-resolution In-situ Observation of Spinodal Decomposition in Silicate Glass
2E1030	Yevgeniy	Sgibnev	Silver Ion Exchange in Photo-thermo-refractive Glass: Properties and Applications
2E1050	Jihong	Zhang	Mutual Effect of Quantum Dots and Rare Earth Ions in Glass Matrix
2E1110	Chao	Liu	Cesium Lead Halide Perovskite Nanocrystals Embedded Glasses

25 (Tue) Room E PM Nanostructures

ID	Presenter		Title	
Invited	2E1520-I	Alessandro	Martucci	Nanostructured Sol-gel Film for Optical Applications
	2E1550	Pascal Sugri	Fuseini Nbelayim	On the Effects of Plasmonic Nanostructures for Efficient Dye-sensitized Solar Cells
	2E1610	Takuya	Fujima	Hierarchical Nanoporous Layer Glass with Antireflectivity, Superhydrophilicity and Material Retention Capability.
	2E1630	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	
Invited 2F0830-I	Bernard	Hehlen	The Structure of Sodo-silicate and Alumino-silicate Glasses Observed by Raman Scattering: Experiments and Numerical Simulations	
2F0900	Georges	Calas	Iron in Glasses: an Overview of 40 Years of Spectroscopic Investigations	
2F0920	Hiroyuki	Hijiya	Consideration on the Structure of Fe ₂₊ in Na ₂ O-RO-SiO ₂ Glass System	
2F0940	Gérald	Lelong	Optical and X-ray Absorption Spectroscopies of iron in Minerals and Glasses: Experiment and Theory	
Invited 2F1030-I	Daniel R.	Neuville	Al in Five Fold Coordination in Silicate Glasses and Melts: Myth or Reality?	
Invited 2F1100-I	Jincheng	Du	Pressure Induced Structural and Property Changes of Borosilicate Glasses: Insights from Molecular Dynamics Simulations	
2F1130	Akihiro	Yamada	Densification of Borosilicate Glass and the Structure	
2F1150	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	
2F1520	Courtney Marie	Calahoo	Structural Insights into Ionic Glasses Through the Mixed-Alkali Effect	
Invited 2F1540-I	Hellmut	Eckert	Structure-Property Correlations in Fluoride Phosphate Photonic Glasses	
2F1610	Céline	Ragoen	Na ⁺ /K ⁺ Ion-exchange and Distribution of Modifiers Cations in Silicate Glass: Results from ¹⁷ O 3QMAS NMR	
2F1630	Pierre	Florian	Atomic-scale Structure and Dynamics in Strontium Aluminosilicate Glasses and Melts.	

25 (Tue) Room A 17:10-18:10

ICG Memorial Round Table Talk

ID	Presenter	Title
2A1710-M	N. Soga, H. A. Schaeffer, A. Yaraman, F. Nicoletti, S. Peng, M. Choudhary, A. Durán Carrera	ICG for Changing Society

26 (Wed) Room A AM	Glass Production Technology (with GlassTrend Seminar)
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ID	Presenter		Title
3A0830	Oscar	Verheijen	GlassTrend – The International Platform Guiding the Glass Industry towards Sustainable Glass Production
3A0850	Anne J.	Faber	Towards CO ₂ Neutral Glass Furnaces: Main Technological Options and Challenges
3A0910	Chikashi	Kimura	The Economy to a Low-carbon & Circular Economy
3A0930	Sebastian Viktor	Krogel	Alternative Fuel Usage for Glass Melting
3A0950	Peter Charles	Milsom	All Electric Furnaces, A Sustainable Future?
Invited 3A1030-I	Hashira	Yamamoto	Treatment of Exhaust Gas from the Glass Melting Furnace using a Plasma-chemical Hybrid Process
3A1100	Mark	Bennett	Thermal Imaging using a "NO _x Filter" Helps Optimise Combustion for Emission Reduction
3A1120	Masaru	Yamashita	Effect of Addition of ZnO and SiC on Decoloration in Foam Glass Prepared from Colored Glass Cullet

26 (Wed) Room A PM	Glass Production Technology (with GlassTrend Seminar)
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ID	Presenter		Title
Invited 3A1300-I	Tomoko	Akai	Management of End-of-life Cathode Ray Tube: Technological Overview and Possible Solutions
3A1330	Hiroyuki	Inano	Lead Removal and Recovery from Waste CRT Glass by Reduction Melting
3A1350	Faidra	Oikonomopoulou	A Novel Design Philosophy for Glass Load-bearing Structures that Facilitate Glass Recycling
3A1410	Telesilla	Bristogianni	Structural Cast Glass Components out of Glass Waste: Diverting Everyday Discarded Glass from the Landfill to the Building Industry.
Invited 3A1500-I	Masahiro	Tomamoto	Ultra-thin Glass : Possibility and Most-advanced Technology
3A1530	Jakob	König	Foamed Glass – A Sustainable Load-bearing Insulation Material
3A1550	Erik	Muijsenberg	New Age of Industry 4.0 for Glass Melting

26 (Wed) Room B AM Innovative Glasses and Processes for Radioactive Waste Management (TC05)

ID	Presenter		Title
Invited 3B0830-I	Richard	Pokorny	Mathematical Modeling of Batch-to-glass Conversion in Electric Melters for Nuclear Waste Vitrification
3B0900	Donna Post	Guillen	Sensitivity Study of Foaming Behavior during Vitrification of Simulant Tank Waste
3B0920	Takuhiro	Miyawaki	High-temperature X-ray CT Observation of Vitrification of Simulated Borosilicate Waste Gasses with High-loading Capacity of HLW
Invited 3B0940-I	Hao	Gan	Phase Stabilities of Noble Metals Ru, Rh and Pd and Implications for Vitrification of High Level Nuclear Wastes
Invited 3B1030-I	Tsuyoshi	Usami	Formation of Acicular Crystal of Ruthenium Oxide in Vitrification Process
3B1100	Atsunobu	Masuno	Local Structure Analysis of Nuclear Waste Glasses
3B1120	Chong	Zhao	Low-Melting Lead Borate Glasses for Immobilization of Technetium
3B1140	Mio	Midorikawa	Solubility and Structural Characteristics of Rhenium in Borosilicate Waste Glasses

26 (Wed) Room B PM Innovative Glasses and Processes for Radioactive Waste Management (TC05)

ID	Presenter		Title
1B1300	Cheong Won	Lee	Immobilization of Spent Nuclear Fuel by Vitrification
3B1320	Fuminori	Sato	A Basic Research on the Applicability of Iron Phosphate Glass for Low Level Radioactive Liquid Waste
3B1340	Yuri	Tajimi	Local Structural Analysis around Zr and Cs in Iron Phosphate Glasses
3B1400	Wei	Zhao	Chloride Dissolution in Aluminosilicate Glasses
3B1420	Peter	Lichvár	The Suppress Evaporation of Volatile ¹³⁷ Cs from Liquid Radioactive Waste in the Thermal Treatment Process -Vitrification.
3B1500	Kai	Xu	Vitrification of Nuclear Waste with Leaded CRT Glass
3B1520	Kazuyoshi	Uruga	Chemically Durable Sulfophosphate Glass for Radioactive Waste Immobilization

3B1540	Toru	Sugawara	Thermodynamic Optimization of Phase Separation of Molybdenum Phase in High-level Waste Glass
3B1600	Ryo	Souma	Effects of Average Bonding Number and the Non-bridging Oxygen Content on the MoO ₃ Solubility and Chemical Durability of Borosilicate Glasses

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

ID	Presenter		Title
Invited 3C0830-I	Jonathan Cave	Knight	Optical Fibres for the Future: Why Hollow Core Fibres might be Best
3C0900	Xin	Jiang	Advanced Fabrication of Nanostructured Germanate and Tellurite Optical Fibres
3C0920	Tomokatsu	Hayakawa	Glass Structures and Linear/Nonlinear Optical Properties of Silver Tellurite Glasses
3C0940	Maurizio	Ferrari	Photons Management by Glass-derived Confined Structures
Invited 3C1030-I	Alicia	Duran	Oxyfluoride Glass-ceramics: Looking for 21st Century Photonic Materials
3C1100	Kazuki	Asami	Preparation and Photoluminescence Characteristics of Eu ²⁺ Doped Barium Silicon Oxynitride Glass Ceramic for White LED
3C1120	Vladimir	Aseev	Transparent Phosphor-in-Glass Composites with YAG:Ce and High Refractive Index Glass
3C1140	Jumpei	Ueda	Orange Persistent Luminescence and Photo-darkening of CaO-Ga ₂ O ₃ -GeO ₂ Glass

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

ID	Presenter		Title
Invited 3C1300-I	Richard K.	Brow	Two-point Bend Studies of the Failure Characteristics of Glass Fibers
Invited 3C1330-I	Yuanzheng	Yue	GlassFiber Forming and Relaxation
3C1400	Minoru	Tomozawa	Surface Stress Relaxation of Glass Fibers
2C1420	Denis V.	Okhrimenko	Surface Reactivity and Dissolution Properties of Alumina-silica Glasses and Mineral Wool Fibers
3C1500	Hong	Li	Alumina and Silica Sources for Continuous Reinforcement Glass Fiber Manufacturing - Melting Energy Aspect

3C1520	Andreas	Prange	Development of Glass Compositions for Reinforcement Applications
3C1540	Qun	Zu	Composition Design for Special Glass Fiber

26 (Wed) Room D AM	Electric & Magnetic Functions
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ID	Presenter		Title
3D0830	Andrea	Moguš-Milanković	Mixed Ion-polaron Glasses as New Cathode Materials
3D0850	Tingting	Li	Improvement of Dielectric Constant by Formation of BaBi ₄ Ti ₄ O ₁₅ in Glass - BaTiO ₃ Composites
3D0910	Nobuaki	Terakado	Fabrication of Multilayer Structure Including Spin Thermal Conductivity Film for Application to Electric-field Switching of Heat
Invited 3D0930-I	Steve W.	Martin	Fast Ion Conducting Glasses: Towards Safer and Longer Lasting All Solid State Lithium and Sodium Batteries
Keynote 3D1030-K	Masahiro	Tatsumisago	Amorphous-Based Electrolyte and Electrode Materials in All-Solid-State Lithium Batteries
3D1120	Yusuke	Daiko	Proton Implantation and In-situ Creep Behavior for Phosphosilicate Glasses Monitored Utilizing an Electrochemical Indenter
3D1140	Yongzheng	Ji	Crystallization of the Na ₂ FexNi _{1-x} P ₂ O ₇ Glass and Ability of Cathode for Sodium Ion Batteries

26 (Wed) Room D PM	i) History ii) Durability, Analysis, and Pharma Packaging
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ID	Presenter		Title
3D1300	Radchada	Buntem	Study on the Elemental Compositions of Ancient Glass Beads from Central Thailand
Invited 3D1320-I	Massimo	Guglielmi	The Problem of "Delamination" in Pharmaceutical Glasses
Invited 3D1350-I	Daniele	Zuccato	TC12 "Pharma Packaging": A Round Robin Activity Looking for a Delamination Propensity Predictive Test.
3D1420	Tina	Waurischk	Sub-critical Crack Growth in Hydrous Silicate Glasses
3D1500	Ekarat	Meechoowas	Applied the Standard Method to Indicate and Improve the Weathering Resistance of Soda-lime Silicate Glass
3D1520	Vallepu	Ramesh	Evaluation of Optical Properties and Structural Defects in Sintered Silica Glass

26 (Wed) Room E AM		Crystallisation & GCs		
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ID	Presenter		Title	
3E0850	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	
3E0910	Sohei	Sukenaga	Wettability Induced Change in Crystallization Behavior of Lithium Disilicate Liquids on Metallic Substrates	
3E0930	Lars	Ortmann	Influence of Al ₂ O ₃ on Solubility and Crystallization in Silica Glasses	
3E0950	Alexander	Karamanov	Structure and Properties of Sintered Glass-ceramics with Attractive Appearance from Industrial Wastes	
Invited	3E1030-I	Ralf	Mueller	Sintering and Foaming of Silicate Glass Powders
Invited	3E1100-I	Ana Candida M.	Rodrigues	Crystallization Behavior of Precursor Glasses and Properties of Nasicon-structured Glass-ceramics.
3E1130	Wolfgang	Schmidbauer	Glass Ceramics as Solid Electrolytes for Lithium Based Solid States Batteries	
3E1150	Tsuyoshi	Honma	Formation of Bismuth Metal Particles in Bismuth Borate Glass	

26 (Wed) Room E PM		Crystallisation & GCs		
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ID	Presenter		Title	
Invited	3E1300-I	María Jesús	Pascual Francisco	Crystallization and Optical Properties of KLaF ₄ Transparent Glass-ceramics
3E1330	Takayuki	Komatsu	Crystal Growth Direction and Rotation in Crystals Patterned by Laser in Glasses	
3E1350	Geng	Lin	Optical Properties of Lead Selenide Quantum Dots in Glasses Fabricated by Femtosecond Laser Irradiation	
3E1410	Yuan	Gao	Two-phase Crystallization and Dopant Distribution in Glass Ceramics to Control Luminescence Color	
3E1500	Kenji	Shinozaki	Upconversion luminescence of Er ³⁺ ions in New Transparent Glass-ceramics with BaF ₂ Nanocrystals in BaF ₂ -ZnO-B ₂ O ₃ System and Formation of BaF ₂ -like Migration in the Glass	
3E1520	Markus	Rampf	Effect of P ₂ O ₅ on the Crystallization of Quartz in the SiO ₂ -Li ₂ O-K ₂ O-Al ₂ O ₃ -MgO-CaO Glass System	
3E1540	Duangrudee	Chaysuwan	Coloration of Machinable Mica-based Glass-ceramic as Restorative Dental Materials	

3E1600	Yoshihiro	Takahashi	Vanadium Dioxide-dispersed Glass toward All-solid Phase Change Material
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26 (Wed) Room F AM	Atomistic View of Glass -Structure & Vibration & Atomistic Simulation (TC03, TC26, TC27)		
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ID	Presenter		Title
3F0830	Yoshiki	Ishii	Local Structures and Transport Properties of Alkali and Alkaline-Earth Aluminosilicates obtained with DFT-based Force Fields
3F0850	Yasuhiko	Benino	Molecular Dynamics Simulation of Anisotropic Glasses in Calcium Phosphate System
3F0910	Akira	Takada	New Theoretical Model for Statistical Thermodynamics in Non-equilibrium States
3F0930	Alex C	Hannon	The Bond Valence Method Applied to Glass Structure
3F0950	Yohei	Onodera	Structure of Disordered Materials Characterized by Persistent Homology
Invited 3F1030-I	Hiroyo	Segawa	Studies of Reaction between SiAlON Phosphor and Glass Matrices for LED Applications
3F1100	Alex	Priven	Could Glass Property Data Give More Structural Insights?
3F1120	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)		
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ID	Presenter		Title
Invited 3F1300-I	Liping	Huang	Indentation Behavior of Glass Studied by Molecular Dynamics Simulation
3F1330	Gustavo Alberto	Rosales-Sosa	Finite Element Analysis (FEA) of Spherical Indentation in Silica Glass and Measurement of Densification Distribution by Means of Raman Spectroscopy
3F1350	Jun Ho	Lee	Infrared Transmission Edge and Refractive Index Dispersion of Quaternary Ge-Sb-S-Se Glass
3F1410	Tatsuya	Mori	Boson Peak Dynamics of Densified Silica Glass Probed by Terahertz Time-domain Spectroscopy
Invited 3F1500-I	Madoka	Ono	Void Structure in Silica Glass Observed with Positron Annihilation Lifetime Spectroscopy – The Effect on its Optical Properties
3F1530	Naoyuki	Kitamura	Viscoelastic Study of Sodium Silicate and Borosilicate Glasses by Compression Creep and Dynamic Viscoelastic Measurements around Deformation Temperature

3F1550

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
Glasses for 21st Century Photonic Technologies (TC20)			
2P001	Keizo	Sato	An In-flight Melting Method": New Approaches for Glass Production and Amorphous science (2); Development of New Functional Materials
2P002	Keizo	Sato	An In-flight Melting Method": New Approaches for Glass Production and Amorphous Science (3); Comparing In-flight Glasses and Float-process Soda-lime Glasses
2P003	Tomokatsu	Hayakawa	Wavelength Conversion Properties of Tb ³⁺ , Yb ³⁺ Codoped ZrO ₂ -SiO ₂ Nanocrystallized Glasses
2P004	Nur Nabihah	Yusof	Spectroscopic Study and Judd-Ofelt Analysis of Neodymium Ions-doped Magnesium Zinc-sulfophosphate Glasses
2P005	Tomoya	Konishi	Photoluminescence and Structure of Copper and Tin-doped Glasses
2P006	Hirokazu	Masai	Luminescence of Ce-doped Oxide Glasses
2P007	Xiangdong	Liu	Modification of Phosphate Glass by CW-laser Induced Metal Microsphere Manipulation
2P008	Kaya	Nagao	Effect of Melting Time and Heat Treatment on Emission Properties of Copper (I) and Tin (II)-doped Glass
2P009	Hitomi	Nakamura	Preparation of YAG:Ce Nanophosphor Dispersed in Mesoporous Silica Glass
2P010	Georgiy	Shakhgildyan	Influence of Gold Nanoparticles on the Optical Properties Au-Eu Co-doped Phosphate Glasses
2P011	Mitsuru	Kojima	Relationship between Glasses Local Structure and Photoluminescence Properties of Alkali Silicate Glasses
Nanostructures			
2P012	Nikolay	Nikonorov	Contribution of Silver Molecular Clusters to UV-induced Refractive Index Changes in Photo-thermo-refractive Glass: Mechanism and Applications
2P013	Takumi	Ito	Ion Elution Behavior from Glass in the Formation of a Hierarchical Nanoporous Layer Glass.
2P014	Erika	Tabata	Blurring Behavior of a Fingerprint on Hierarchical Nanoporous Layer glass.

2P015	Keisuke	Matsubara	Porous Silicon Prepared from Bulk Porous Silica Glass via Magnesiothermic Reduction
2P016	Ryosuke	Seto	Synthesis of Poly(phenylsilsesquioxane) Glasses with Low Melting Temperatures by Cosolvent-free Hydrolytic Polycondensation via Aging
2P017	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			
2P018	Junichi	Minato	Precision Improvement of X-ray Residual Stress Measurement for Textured Thin Films on Glass Substrates
2P019	Kazuhiro	Kato	Microstructure Control of Functional Thin Films Deposited on Glass by Magnetron Sputtering
2P020	Keisuke	Murata	Diamond-dispersed Sol-gel Derived Composite Coating for Transparent Glass Screen
2P021	Toshihiro	Hirano	Development of Anti-fog Transparent Coatings for Mirrors by Wet Chemical Processing
2P022	Usanee	Pantulap	Transparent Hydrophobic of TEOS/OTES Hybrid Material by Sol-gel Processing
2P023	Tomoji	Ohishi	Preparation and Aas Barrier Characteristics of Polysilazane-derived Silica Coatings on Organic Films by Photo-irradiation
2P024	Keita	Yasumoro	A Hierarchical Nanoporous Layer Glass with a PSS-free PEDOT Conductive Film.
2P025	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			
2P027	Chihiro	Sakai	Quantitative Analysis of Alpha-beta Phase Transformation of Nickel Sulfide
2P028	Kenji	Oda	Uniformity and Homogeneity of Glass Melts in a Glass Tank Furnace
2P029	Marcela	Jebava	Energy Distribution and Controlled Glass Melt Flow in Melting Space
2P030	Tsuyoshi	Fujii	Electrical/Heat Transfer/Fluid Co-simulation for Electrical Heated Platinum Instruments
2P031	Miroslava	Vernerová	The Study of Gas Release Phenomena in Soda-lime-silica Glass
2P032	Atsushi	Takagi	Evaluation of Surface Tension of Molten Glass by the Maximum Bubble Pressure Method and the Ring Method

2P033	Tomoyoshi	Nakamuro	Processing Technology for Glass Tube Sealing with LASER Device
2P034	Masahiro	Ishikawa	Introducing Laser Processing and ACT Contributing to Glass-Melting Industry
2P035	Kazuto	Nakatsuka	The New Forming Process for Large Diameter Glass Tube under Low Flux
2P036	Masashi	Nakamura	Negative-CTE Spherical Filler with High Transmittance
2P037	Satoshi	Miyasaka	DC-Voltage Application to Molten Glass Floated on Molten Tin; A Promising Technique to Modify Glass Surfaces
2P038	Takahiro	Murata	Volatilization from Lithium Fluorophosphate Glass Scintillator during Melting
2P039	Hiroto	Fujisawa	Effect of Basicity on the Dissolution Behavior of Constituent Elements in Municipal Waste Molten Slag
Innovative Glasses and Processes for Radioactive Waste Management (TC05)			
2P040	Kosuke	Jin	Thermodynamic Optimization of $\text{SiO}_2\text{-B}_2\text{O}_3\text{-CaO-Na}_2\text{O-MoO}_3$ System
2P041	Milene	Delaunay	Nuclear Waste Vitrification Process Development: The French Tools at the CEA Marcoule Site
2P042	Fumiaki	Nakao	Volatilization Behavior of Cesium at Melting Treatment of Soil
2P043	Masataka	Oguro	Selective Recovery of Cs from Simulated Vitrified Waste Glass using Li Bath Method
2P044	Hiroyuki	Inoue	Separation of the Elements from Simulated High-Level Radioactive Waste Glass by the Addition of Oxides
2P045	Riku	Shinjo	Extraction of Long-Lived Fission Products from Borosilicate Glass with pseudo High-level Radioactive Nuclear Wastes using Ion-Exchange Extraction Method
2P046	Mio	Midorikawa	Extraction of Pd from Radioactive Waste Glass by Ion Exchange
2P047	Richard K.	Brow	Iron Phosphate Glasses for Encapsulating Mo-rich Nuclear Wastes
2P048	Toshiaki	Ohira	Crystallization of Molybdenum Phase in High-level Waste Glass under Slow Cooling
2P049	Takashi	Okada	Element Distribution in Separation Process of Long-lived Fission Products from Simulated High-level Vitrified Wastes
2P050	Tetsuji	Yano	Combinatorial Approach on the Development of Glass with High-Loading Capacity of High-Level Radio-Active Wastes from Reprocessing of Spent Fuel

2P051	Takahiro	Goto	Corrosion Behavior of Simulated High-level Waste Glass in the Presence of Carbon Steel
History			
2P052	Aleksandra Ewa	Nowicka	The Study of the Influence of Gypsum Binders Used for Glass-metal Connections in Conservation Works on the Glass Surface Degradation.
Bioglasses			
2P053	Nuttawan	Sawangboon	Cobalt-containing Na ₂ O-CaO-P ₂ O ₅ Polyphosphate Glasses for Medical Applications
2P054	Nuttawan	Sawangboon	Influence of Network Former to Modifier Ratio on Structure and Dissolution Behaviour of Silicophosphate Glasses
Durability, Analysis, and Pharma Packaging			
2P055	Branislav	Hruska	Raman Spectroscopic Study of Heavy Weathered Surface of Barium Crystal Glass.
2P056	Atsushi	Ihira	Effect of Addition of RO, R' ₂ O on Water Durability and Formation of Reaction Layer in Iron Phosphate Glasses (R = Ca, Ba, R' = Li, Na, K)
2P057	Haruka	Himei	Water Durability Estimation for Sulfide Glasses Based on M-Sb-S and M-Sb-S-CsCl (M=Ge and Ga)
2P058	Sei	Fukushima	HRCXS - The Powerful Bulk Analysis Method for the Chemical State in Glasses
2P059	Sei	Fukushima	NewSUBARU BL05 - A Industrial Analysis Beam Line in Soft and Tender X-ray Region.
2P060	Yoshitaka	Saijo	Determination of Trace Copper in Glass by ICP-AES after Pretreatment using Solid Phase Extraction Column
2P061	Yuuichi	Hamazaki	Corrosion Behavior of CaO-Al ₂ O ₃ -SiO ₂ Glasses in Alkaline Aqueous Solution
Interaction between Glass Fiber Science and Technology (TC28)			
2P062	Shinji	Nishibori	Visible Exfoliation Prevention Method of Concrete Structure using Glass Fiber
2P063	Yusuke	Daiko	Various Ion Emissions from Nano-sharpened Glass Fiber Emitters
Electric & Magnetic Functions			
2P064	Manari	Shigeno	Mechanochemical Synthesis and Characterization of Li ₂ O-B ₂ O ₃ -SiO ₂ -P ₂ O ₅ Glass Electrolytes with the Addition of Lithium Salts

2P065	Takuya	Kimura	Mechanochemical Synthesis and Characterization of Li_3SbS_4 Glass Electrolytes for All-solid-state Batteries
2P066	Akira	Nasu	Mechanochemically Synthesized Amorphous Na_2TiS_3 as Electrode Material for All-Solid-State Sodium Secondary Batteries
2P067	Kentarou	Okada	Magneto-optical Properties of Transition Metal-containing Glasses Prepared by Containerless Processing
2P068	Masakazu	Aoyagi	Preparation of Highly Terbium-oxide-containing Aluminate Glass Microspheres by the In-Flight Melting Method and their Magnetic Properties
2P069	Kuei-Chih	Feng	Reducing-atmosphere Resistant Mechanism and Enhanced Microwave Dielectric Properties in $\text{CaMgSi}_2\text{O}_6$ Glass-Ceramics
Crystallisation & GCs			
2P070	Tetsuo	Kishi	Precipitation of Oriented Nanocrystals of Barium Ferrite from $\text{BaO-Fe}_2\text{O}_3\text{-B}_2\text{O}_3$ Glass by a Continuous-wave Laser Heating
2P071	Yoshihiro	Takahashi	Second-harmonic Generation from Laser-crystallized Glass in $\text{SrO-TiO}_2\text{-SiO}_2$ System
2P072	Yoshihiro	Takahashi	Optically-stimulated Luminescence of ZrO_2 Powder toward Human-body Temperature Sensing
2P073	Georgiy	Shakhgildyan	Highly Robust Transparent Glass-ceramics in Mg-Al-Si System
2P074	María Jesús	Pascual Francisco	Strengthening and Residual Stress of Glass-ceramic Sealants for SOFC
2P075	Takahiro	Suzuki	In-situ High-temperature Analysis on Astructure Alteration of Magnesium Aluminosilicate Glass during Cooling Process
2P076	Tatsuya	Fujii	Influence of Addition of Y_2O_3 on Crystallization Behavior of $\text{ZnO-Al}_2\text{O}_3\text{-SiO}_2$ Glasses
2P077	Ryoichi	Sugiura	Properties of $\text{ZnO-Al}_2\text{O}_3\text{-SiO}_2\text{-B}_2\text{O}_3\text{-ZrO}_2$ Glass Ceramics
2P078	Kenta	Miyamoto	Adhesion between $\text{Li}_2\text{O} \cdot 2\text{SiO}_2$ Glass and SUS430 Stainless Steel
2P079	Hiroki	Tsuchiya	Synthesis of Ferroelastic β' - $\text{Gd}_2(\text{MoO}_4)_3$ Bulk Glass-ceramics by Melt Cooling and their Characterization
2P080	Keisuke	Inage	Mechanical Properties of Hexagonal $\text{CaAl}_2\text{Si}_2\text{O}_8$ Precipitated Glass-ceramics
2P081	Kaito	Ryo	Crystallization Behavior and Electrochemical Performance of $\text{Na}_2\text{O-TiO}_2\text{-SiO}_2$ Glass and Glass-ceramics for Sodium Ion Battery
2P082	Miyuri	Terasawa	Formation of Transparent Glass-ceramics in $\text{Na}_2\text{Mn}_{0.5}\text{Fe}_{0.5}\text{SiO}_4$ Glass

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

2P083	Ksenia Vladimirovna	Vlasova	A Simple Scheme for Absorption Measurement of High-transparency (10^{-7} cm ⁻¹) Fused Silica.
2P084	Petr	Nemec	Co-sputtered Ge-Sb-Te Thin Films
2P085	Yasuyuki	Takimoto	Structural Investigation of Alkali Silicate Glasses using X-ray and Neutron Diffraction
2P086	Keita	Hamabe	Synthesis and Characterization of Li ₂ S-P ₂ S ₅ -MS (M = Ca, Sr, Ba) Glasses
2P087	Daichi	Morita	In-situ Structural Observation of Aluminosilicate Glasses at High Pressure
2P088	Tomonori	Ueno	Investigation of Glass Structure of Na ₂ O-Al ₂ O ₃ -SiO ₂ System using Photoluminescence of Eu ³⁺ Ions
2P089	Jun	Matsuoka	Infrared Absorption Spectra of Sodium Borate and Borosilicate Melts in Relation to their High Temperature Structure
2P090	Valérie	Montouillout	Follow-up of the Hydration of Granulated Blast Furnace Slags: A Multi-scale Structural Characterization
2P091	Mizuki	Watanabe	Correlation between Basicity and Structure of Borate Glasses
2P092	Hirokazu	Masai	X-ray Absorption Fine Structure Analysis of Tin in Oxide Glass
2P093	Maiko	Masubuchi	Boson Peak Dynamics of Amorphous Silicon Monoxide Investigated by Terahertz Time-domain Spectroscopy
2P094	Kenji	Shinozaki	Fluoride Layer-Like Structure in New Fluoroborate Glasses with Highly Efficient Photoluminescence
2P095	Yuki	Yokota	Coloration Mechanism of Glass for Turn Signals
2P096	Haruhiko	Yoshino	Nanoscale Local Stress Distribution of Nano Phase Separated Glass by STEM-CL
2P097	Keita	Suzuki	Optical Properties of Tin Containing Silicate Glasses
2P098	Takaya	Okamoto	Mechanical Properties in Heavy Metal Containing Oxide Glasses with small photoelastic constant
2P099	Kazuki	Onoyama	Precise Measurement of the Thermal Diffusivity around the Glass Transition Temperature by Considering Radiative Heat Transfer
2P100	Hiroki	Nishimura	Surface Tension Measurements of CaO-Al ₂ O ₃ -SiO ₂ and CaO-Al ₂ O ₃ -FeO _x -SiO ₂ Glass Melts with the Range of $1 \leq x \leq 1.5$ using Maximum Bubble Pressure Method

2P101	Kae	Fujimoto	Basicity of Alkali Borate Glasses by using Various Evaluation Methods
2P102	Nobuaki	Terakado	Non-destructive Stress Evaluation by Micro-Raman Spectroscopy and X-ray Diffraction in Chemically Strengthened Glass
2P103	Mikiya	Furukawa	Glass Formation and Properties of the Glasses Based on Ge, As, Sb-free Sulfide Systems for Infrared Applications
2P105	Masahiro	Ikeda	High-Temperature Structural Relaxation and Fragility in Glass-Forming Liquids
2P106	Masato	Inoue	Development of Liquidus Temperature Measurement System under Atmosphere Control
2P107	Motoshi	Iwanaga	Glass Forming Region and Thermal Stability of SrO-Al ₂ O ₃ -ZrO ₂ System Prepared by In-Flight Melting Technique
2P108	Yuya	Yamamoto	Study of Boron Oxide Anomaly in Sodium Borate Glasses by using Classical Molecular Dynamics Simulation
Glasses under Elevated Pressure -Local Versus Mean-field Compaction- (TC06)			
2P109	Keisuke	Asai	In-situ Evaluation of Stress Distributions and Cracking Behavior in Silica and Soda-lime Glasses
2P110	Hiroki	Nakamura	Stress Behavior on Glass Surface by Ball Drop Impact
Advanced Surface Characterization of Multicomponent Glasses (TC19)			
2P111	Naoya	Hirata	Two-step Preparation and Characterization of Chemically Tempered Soda-lime Silicate Glass
2P112	Maria	Chromcikova	Thermodynamic Model and Identification of the Surface-active Components of the Glass-forming Melts.
2P113	Yin	Liu	Direct Bonding of Bioactive Glass Film on Titanium Plate at Room Temperature
2P114	Tadanori	Hashimoto	Fe ₂ O ₃ -Bi ₂ O ₃ -GeO ₂ Glasses with Compatibility between pH Responsivity and Hydrophobicity