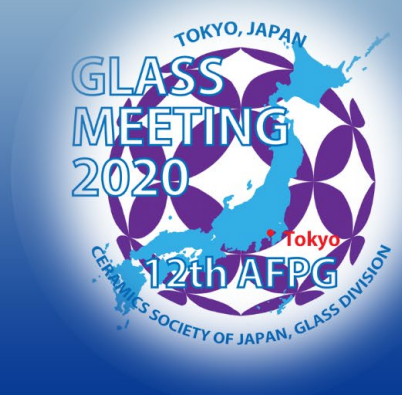
GLASS MEETING 2020

The 61st Conference on Glass and Photonics Materials, International
The 12th International Conference on Advances in Fusion and Processing of Glass (AFPG2020)
The 16th Symposium of Glass Industry Conference of Japan (GIC)
The 2nd Workshop on Nuclear Waste Glasses and Related Materials
Student and Young Researcher Forum on Glass Research

December 7-10, and 16-18, 2020

On Web



Program for Time Zone, JST

The Ceramic Society of Japan

GIC GLASS INDUSTRY CONFERENCE OF JAPAN

Frame and time table of GLASS MEETING 2020 on Web (Final version)

LIVE Keynote speeches and live CLOSING (only JST) are held at ROOM Live.

RECORDED Keynote speeches are given in every active rooms.

Region Asia（Time zone: JST)

Date	Time	Room 1	Room 2	Room 3
2020.12.07	0:00			
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	8:00	OPENING (8:40~)		
	9:00	AFPG-D1-01 - 06	GS-D1-01 - 09	
	10:00			
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	12:00			
	13:00	Lunch & break		
	14:00	AFPG-D1-07-11	GS-D1-10 - 16	
	15:00			
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	17:00	LIVE KEYNOTE (Japan & Euro) Dr. Anne Faber		
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	8:00	LIVE KEYNOTE (Japan & USA) Prof. Ian Pegg		
	9:00	AFPG-D2-01 - 05	GS-D2-01 - 08	NWG-D2-01 - 06
	10:00			
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	12:00	Lunch & break		
	13:00	Student and Young Researcher Forum Part 1		
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	15:00	Student and Young Researcher Forum Part 2		
	16:00			
	17:00	LIVE KEYNOTE (Japan & Euro) Dr. Eric Muijsenberg		
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	8:00	LIVE KEYNOTE (Japan & USA) Prof. Shifeng Zhou		
	9:00	LIVE KEYNOTE (Japan & USA) Dr. Joeseph Ryan		
	10:00		GS-D3-01 - 06	NWG-D3-01 - 05
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	13:00	Lunch & break		
	14:00		GS-D3-07 - 13	NWG-D3-06-09
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	16:00			break
	17:00	LIVE KEYNOTE (Japan & Euro) Prof. Tanguy Rouxel		
	18:00	CLOSING (LIVE)		
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Region Euro.（Time zone: CET)

Date	Time	Room 1	Room 2	Room 3
2020.12.06	16:00			
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	9:00	LIVE KEYNOTE (Japan & Euro) Dr. Anne Faber)		
	10:00	AFPG-D1-01 - 06	GS-D1-01 - 09	
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	15:00	AFPG-D1 07-11	GS-D1-10 - 16	
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	9:00	LIVE KEYNOTE (Japan & Euro) Dr. Eric Muijsenberg		
	10:00	AFPG-D2-01 - 05	GS-D2-01 - 08	NWG-D2-01 - 06
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	13:00	Lunch & break		
	14:00	RECORDED KEYNOTE (Japan & USA) Prof. Ian Pegg		
	15:00	Student and Young Researcher Forum Part 1		
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	9:00	LIVE KEYNOTE (Japan & Euro) Prof. Tanguy Rouxel		
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	13:00	Lunch & break		
	14:00	RECORDED KEYNOTE (Japan & USA) Prof. Shifeng Zhou		
	15:00	RECORDED KEYNOTE (Japan & USA) Dr.Joeseph Ryan		
	16:00		GS-D3-07 - 13	NWG-D3 01 - 05
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Region USA (Time zone: EST)

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	9:00	RECORDED KEYNOTE (Japan & Euro) Dr. Anne Faber		
	10:00	AFPG-D1 01 - 06	GS-D1-01 - 09	
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	9:00	RECORDED KEYNOTE (Japan & Euro) Dr. Eric Muijsenberg		
	10:00	AFPG-D2-01 - 05	GS-D2-01 - 08	NWG-D2-01 - 06
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	13:00	Lunch & break		
	14:00	Student and Young Researcher Forum Part 1		
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	16:00	Student and Young Researcher Forum Part 2		
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	18:00	LIVE KEYNOTE (Japan & USA) Prof. Shifeng Zhou		
	19:00	LIVE KEYNOTE (Japan & USA) Dr. Joeseph Ryan		
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	9:00	RECORDED KEYNOTE (Japan & Euro) Prof. Tanguy Rouxel		
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	13:00	Lunch & break		
	14:00		GS-D3-07 - 13	NWG-D3-06-09
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Region USA (Time zone: PST)

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	8:00	OPENING (8:40~)		
	9:00	RECORDED KEYNOTE (Japan & Euro) Dr. Anne Faber		
	10:00	AFPG-D1 01 - 06	GS-D1-01 - 09	
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	14:00	Lunch & break		
	15:00	LIVE KEYNOTE (Japan & USA) Prof. Ian Pegg		
	16:00	AFPG-D1 07-11	GS-D1-10 - 16	
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	8:00	RECORDED KEYNOTE (Japan & Euro) Dr. Eric Muijsenberg		
	9:00	AFPG-D2 01 - 05	GS-D2-01 - 08	NWG-D2-01 - 06
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	12:00	Lunch & break		
	13:00	Student and Young Researcher Forum Part 1		
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	15:00	LIVE KEYNOTE (Japan & USA) Prof. Shifeng Zhou		
	16:00	LIVE KEYNOTE (Japan & USA) Dr. Joeseph Ryan		
	17:00	Student and Young Researcher Forum Part 2		
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	9:00	RECORDED KEYNOTE (Japan & Euro) Prof. Tanguy Rouxel		
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	13:00	Lunch & break		
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2020.12.10	0:00			

Date	Time	Asia (JST)	Date	Time	Euro (CET)	Date	Time	USA (EST)	Date	Time	USA (PST)
2020.12.16	0:00	Random access to all presentations availble with answer to the given Qs	2020.12.16	0:00	Random access to all presentations availble with answer to the given Qs	2020.12.16	0:00	Random access to all presentations availble with answer to the given Qs	2020.12.16	0:00	Random access to all presentations availble with answer to the given Qs
	12:00			12:00			12:00			12:00	
2020.12.17	0:00		2020.12.17	0:00		2020.12.17	0:00		2020.12.17	0:00	
	12:00			12:00			12:00			12:00	
2020.12.18	0:00		2020.12.18	0:00		2020.12.18	0:00		2020.12.18	0:00	
	12:00			12:00			12:00			12:00	
2020.12.19	0:00		2020.12.19	0:00		2020.12.19	0:00		2020.12.19	0:00	

LIST OF KEYNOTE SPEECHES

TIME ZONE JST	TIME ZONE CET	TIME ZONE EST	TIME ZONE PST	SPEAKER	INSTITUTE	TITLE	Chairman
17:00 2020/12/7 ***LIVE***	9:00 2020/12/7 ***LIVE***	9:00 2020/12/7 ***RECORDED***	9:00 2020/12/7 ***RECORDED***	Anne Jans Faber	CelSian Glass & Solar	Towards CO2-free glass manufacturing: technological challenges	Noriyuki Yoshida (NEG)
8:00 2020/12/8 ***LIVE***	14:00 2020/12/8 ***RECORDED***	18:00 2020/12/8 ***LIVE***	15:00 2020/12/8 ***LIVE***	Ian L. Pegg	The Catholic University of America	Vitrification of Nuclear Wastes	Takahiro Ishio (JNFL)
16:50 2020/12/8 ***LIVE***	8:50 2020/12/8 ***LIVE***	8:50 2020/12/8 ***RECORDED***	7:50 2020/12/8 ***RECORDED***	Erik Muijsenberg	GLASS SERVICE	Recent Trends in European Glass Industry	Noriyuki Yoshida (NEG)
8:00 2020/12/9 ***LIVE***	14:00 2020/12/9 ***RECORDED***	18:00 2020/12/8 ***LIVE***	15:00 2020/12/8 ***LIVE***	Shifeng Zhou	South China University of Technology	Multicomponent Photonic Glasses and Fibers	Yoshihiro Takahashi (Tohoku University)
9:00 2020/12/8 ***LIVE***	15:00 2020/12/9 ***RECORDED***	19:00 2020/12/8 ***LIVE***	16:00 2020/12/8 ***LIVE***	Joseph Ryan	Pacific Northwest National Laboratory	Evaluating an Uncertain Future: International efforts to develop the scientific basis for the long-term behavior of high-level nuclear waste glass	Seiichiro Mitsui (JAEA)
16:50 2020/12/9 ***LIVE***	8:50 2020/12/9 ***LIVE***	8:50 2020/12/9 ***RECORDED***	8:50 2020/12/9 ***RECORDED***	Tanguy Rouxel	University of Rennes 1	What we can learn from the mechanical behavior of glasses about their atomic and molecular structure	Satoshi Yoshida (AGC)

PROGRAM @ ***ROOM Live*** *in Time Zone,* ***JST***

DATE	TIME ZONE JST	PAPER No.	TITLE	SPEAKER	INSTITUTE
2020/12/7	17:00	***KEYNOTE SPEECH*** (Chair：Noriyuki Yoshida)	Towards CO2-free glass manufacturing: technological challenges	Anne Jans Faber	CelSian Glass & Solar

DATE	TIME ZONE JST	PAPER No.	TITLE	SPEAKER	INSTITUTE
2020/12/8	8:00	***KEYNOTE SPEECH*** (Chair：Takahiro Ishio)	Vitrification of Nuclear Wastes	Ian L. Pegg	The Catholic University of America
2020/12/8	16:50	***KEYNOTE SPEECH*** (Chair：Noriyuki Yoshida)	Recent Trends in European Glass Industry	Erik Muijsenberg	GLASS SERVICE

DATE	TIME ZONE JST	PAPER No.	TITLE	SPEAKER	INSTITUTE
2020/12/9	8:00	***KEYNOTE SPEECH*** (Chair：Yoshihiro Takahashi)	Multicomponent Photonic Glasses and Fibers	Shifeng Zhou	South China University of Technology
2020/12/9	9:00	***KEYNOTE SPEECH*** (Chair：Seiichiro Mitsui)	Evaluating an Uncertain Future: International efforts to develop the scientific basis for the long-term behavior of high-level nuclear waste glass	Joseph Ryan	Pacific Northwest National Laboratory
2020/12/9	16:50	***KEYNOTE SPEECH*** (Chair：Satoshi Yoshida)	What we can learn from the mechanical behavior of glasses about their atomic and molecular structure	Tanguy Rouxel	University of Rennes 1
2020/12/9	18:00	***CLOSING***			

PROGRAM @ ***ROOM 1*** *in Time Zone,* ***JST***

DATE	TIME ZONE JST	PAPER No.	TITLE	SPEAKER	INSTITUTE
2020/12/7	8:40	***OPENING ceremony***		T. Yano, H. Yamazaki, H. Wakatsuki	
2020/12/7	9:00	AFPG-D1-01	***(INVITED)*** Characterizations of the Batch-to-Melt Conversion Process of Alkaline Earth Aluminoborosilicate Glass	Hong Li	Nippon Electric Glass Co., Ltd.
	9:30	AFPG-D1-02	Advances in the assessment of energy demand and turnover kinetics of glass melting	Reinhard Conradt	uniGlassAC
	10:00	AFPG-D1-03	Tracking batch in glass furnaces using Machine Learning and Deep Neural Networks	Matthew Gillott	AMETEK Land
	10:30	AFPG-D1-04	nanoplat-DT, new ODS material for melter	Takanobu Miyashita	TANAKA Kikinzoku Kogyo K.K.
	11:00	Break (15 min)			
	11:15	AFPG-D1-05	***(INVITED)*** Thermodynamic database of molten oxide and its application to Glass Science	Toru Sugawara	Akita University
	11:45	AFPG-D1-06	***(INVITED)*** Measurement and interpretation of physical properties for multicomponent silicate melts	Sohei SUKENAGA	Tohoku University
	12:15	Lunch & break			
	14:00	AFPG-D1-07	***(INVITED)*** How RHI Magnesita ensures the quality of its refractory products for the Glass Industry	Stefan Postrach	RHI Magnesita
	14:30	AFPG-D1-08	Effects of heat treatment on properties of iron-containing float glass	Koichi Sakaguchi	Nippon Sheet Glass, Co., Ltd.
	15:00	AFPG-D1-09	Effect of chemical strengthening on dimensional changes of Falcon Glass	Celine Ragoen	AGC Glass Europe
	15:30	Break (15 min)			
	15:45	AFPG-D1-10	Analysis of bubble gas composition by Raman spectroscopy	Kimiyasu Okumura	Nippon Electric Glass Co.,Ltd.

	16:15	AFPG-D1-11	Bayesian Statistical Modeling for Glass Density Prediction	Koichi Shiraki	Nippon Sheet Glass, Co., Ltd.
2020/12/7	17:00	***KEYNOTE SPEECH*** (Chair：Noriyuki Yoshida) ***move to ROOM Live***	Towards CO2-free glass manufacturing: technological challenges	Anne Jans Faber	CelSian Glass & Solar
2020/12/8	8:00	***KEYNOTE SPEECH*** (Chair：Takahiro Ishio) ***move to ROOM 0***	Vitrification of Nuclear Wastes	Ian L. Pegg	The Catholic University of America
2020/12/8	9:15	AFPG-D2-01	***(INVITED)*** Low CO2 Melting: All-electric or Hybrid Technology?	Andrew Reynolds	Fives Stein Ltd
	9:45	AFPG-D2-02	***(INVITED)*** Designing glass batches for the future	Hans van Limpt	Sibelco
	10:15	Break (15 min)			
	10:30	AFPG-D2-03	***(INVITED)*** Heat Oxy-combustion and Hydrogen for glass melting: the route toward CO2 neutrality	Chikashi KIMURA	Air Liquide Japan G.K.
	11:00	AFPG-D2-04	Semi-dry exhaust gas treatment for glass bottle furnace using a plasma-chemical hybrid process	Hashira YAMAMOTO	Nihon Yamamura Glass Co., Ltd.
	11:30	Lunch & break			
2020/12/8	13:00	***Student and Young Researcher Forum on Glass Research Part 1 (See SYRF program)***			
2020/12/8	15:00	***Student and Young Researcher Forum on Glass Research Part 2 (See SYRF program)***			
2020/12/8	16:50	***KEYNOTE SPEECH*** (Chair：Noriyuki Yoshida) ***move to ROOM Live***	Recent Trends in European Glass Industry	Erik Muijsenberg	GLASS SERVICE

*PROGRAM @ **ROOM 2** in Time Zone, **JST***

DATE	TIME ZONE JST	PAPER No.	TITLE	SPEAKER	INSTITUTE
2020/12/7	8:40	***OPENING ceremony***		T. Yano, H. Yamazaki, H. Wakatsuki	
2020/12/7	9:00	GS-D1-01	***(INVITED)*** Improving Bioactive Glass Functionality by Ionic Substitutions	Delia Brauer	Friedrich Schiller University Jena
	9:40	GS-D1-02	Structural study and biological activity of borate glasses	Sara Aqdim	University Hassan II of Casablanca
	10:00	GS-D1-03	Characterization of porous glass microspheres for doxorubicin administration	Bryan Alexander Escalante Castro	Medical and Industrial Application Division Nuclear Materials Department Bariloche Atomic Centre
	10:20	GS-D1-04	Crystallization mechanism of Na2MgxFe1-xP2O7 glass for sodium ion battery	Tsuyoshi Honma	Nagaoka University of Technology
	10:40	GS-D1-05	Preparation of oxide-based sodium all-solid-state batteries by laser irradiation	Masafumi Hiratsuka	Nagaoka University of Technology
	11:00	GS-D1-06	Preparation of all-solid-state Na battery using 5 V class cathode glass-ceramics	YONGZHENG JI	Nagaoka University of Technology
	11:20	GS-D1-07	A transferable force field for lithium phosphosulfide solid electrolytes	Shunsuke Ariga	Chiba University
	11:40	GS-D1-08	***(INVITED)*** Taiwan Circular Economy of Glass Industry	TING-AN WU	Spring Pool Glass Ind. CO
	12:20	GS-D1-09	Glass Recycling Case Studies by Local Public Technology Centers in Japan	Hiroyuki Inano	Hokkaido Research Organization
	12:40	Lunch & break			
	14:00	GS-D1-10	***(INVITED)*** Impact of Structural Ordering on Vitrification and Crystallization	Hajime Tanaka	University of Tokyo
	14:40	GS-D1-11	An efficient computational procedure to obtain a more stable glass structure	Shingo Urata	AGC Inc.
	15:00	GS-D1-12	MD calculations for density at high temperature in R2O-SiO2 glass melts	Chia-Lung Lee	Nippon Electric Glass
	15:20	GS-D1-13	***(INVITED)*** Discovering New Glasses by Machine Learning and Network Topology	Mathieu Bauchy	University of California
	16:00	GS-D1-14	A machine learning approach to propose optimized glass compositions	Takuya Hori	Chiba University
	16:20	GS-D1-15	Neural network analysis of the viscosity of melt in the system SiO2-Al2O3-CaO-MgO-Na2O	Kazutaka Matsuyama	Akita University

	16:40	GS-D1-16	Neural network for predicting the fragility index and the temperature-dependency of viscosity	Daniel Cassar	Federal University of Sao Carlos
2020/12/7	17:00	***KEYNOTE SPEECH*** (Chair：Noriyuki Yoshida) ***move to ROOM Live***	Towards CO2-free glass manufacturing: technological challenges	Anne Jans Faber	CelSian Glass & Solar
2020/12/8	8:00	***KEYNOTE SPEECH*** (Chair：Takahiro Ishio) ***move to ROOM Live***	Vitrification of Nuclear Wastes	Ian L. Pegg	The Catholic University of America
2020.12.08	9:00	GS-D2-01	***(INVITED)*** Pressure Control of Fluctuation in Glass	Madoka Ono	Hokkaido University/ AGC
	9:40	GS-D2-02	Relationship between the First Sharp Diffraction Peak and Physical Properties of SiO2 Glasses Possessing Different Fictive Temperatures	Hirokazu Masai	National Institute of Advanced Industrial Science and Technology
	10:00	GS-D2-03	Structural Modeling and Vibrational Analysis of the La2O3-Ga2O3 Binary Glass Synthesized by an Aerodynamic Levitation	Kohei Yoshimoto	Nikon Corporation
	10:20	GS-D2-04	Poly(phenyl-co-n-alkylsilsesquioxane) and poly(phenyl-co-vinylsilsesquioxane) glasses with low melting temperatures prepared by cosolvent-free hydrolytic polycondensation of organotrimethoxysilanes	Koichi Kajihara	Tokyo Metropolitan University
	10:40	GS-D2-05	Viscoelastic behavior of sodium borosilicate glasses from room temperature to deformation temperature	Naoyuki Kitamura	National Institute of Advanced Industrial Science and Technology
	11:00	GS-D2-06	XAFS Investigation of Third-order Nonlinear Optical TeO2-Ag2O Glasses Controlled in Optical Bandgap	Tomokatsu Hayakawa	Nagoya Institute of Technology, Japan
	11:20	GS-D2-07	Structural, mechanical and optical properties of the TeO2-ZnO-Na2O ternary glass system	Jonathan de CLERMONT-GALL	Nagoya Institute of Technology
	11:40	GS-D2-08	Photoluminescence properties and quantum efficiency of Nd3+-doped TeO2-K2O-Ga2O3 glasses prepared with various crucibles	Natsumi Hosokawa	Nagoya Institute of Technology
	12:00	Lunch & break			
2020/12/8	13:00	***Student and Young Researcher Forum on Glass Research Part 1 (See SRYRF program)***			
2020/12/8	15:00	***Student and Young Researcher Forum on Glass Research Part 2 (See SRYRF program)***			
2020/12/8	16:50	***KEYNOTE SPEECH*** (Chair：Noriyuki Yoshida) ***move to ROOM Live***	Recent Trends in European Glass Industry	Erik Muijsenberg	GLASS SERVICE

2020/12/9	8:00	***KEYNOTE SPEECH*** (Chair：Yoshihiro Takahashi) ***move to ROOM Live***	Multicomponent Photonic Glasses and Fibers	Shifeng Zhou	South China University of Technology
2020/12/9	9:00	***KEYNOTE SPEECH*** (Chair：Seiichiro Mitsui) ***move to ROOM Live***	Evaluating an Uncertain Future: International efforts to develop the scientific basis for the long-term behavior of high-level nuclear waste glass	Joseph Ryan	Pacific Northwest National Laboratory
2020/12/9	10:20	GS-D3-01	Improvement in fracture toughness of soda-lime silicate glass via incorporation of silver nanoparticles	Lei Liu	National Institute of Advanced Industrial Science and Technology
	10:40	GS-D3-02	Dynamic indentation hardness of silicate glasses	Satoshi Yoshida	AGC Inc.
	11:00	GS-D3-03	***(INVITED)*** Potential of Functional Silica Glass by Zeolite Method and Development of Specialty Fiber Elements	Yasushi Fujimoto	Chiba Institute of Technology
	11:40	GS-D3-04	Effect of high-repetition rate femtosecond laser pulses exposure on ternary tellurite glass	Gozden Torun	Ecole Polytechnique Fdrale de Lausanne
	12:00	GS-D3-05	Composition dependence of the Soret effect in binary B2O3-SiO2 glass melts	Kenzo Sato	Kyoto University
	12:20	GS-D3-06	Modification of thermochromic phosphate glass by CW-laser-induced metal microsphere migration	Tetsuo Kishi	Tokyo Institute of Technology
	12:40	Lunch & break			
	14:00	GS-D3-07	Enhancement of Pockels Effect in Nonlinear Optical Glass-Ceramics toward Optical Device	Yoshihiro Takahashi	Tohoku University
	14:20	GS-D3-08	Glass structure of fluoroborate glasses precipitate NaYF4 nanocrystals and nanocrystallization in melt-quenching process	Kenji Shinozaki	National Institute of Advanced Science and Technology (AIST)
	14:40	GS-D3-09	Effect of Li2O on crystallization behavior in BaO-SiO2 glass	Takato Kajihara	AGC Inc.
	15:00	GS-D3-10	Transparent glass-ceramics with a high thermal conductivity of 3.3 W/(m K)	Nobuaki Terakado	Tohoku University
	15:20	GS-D3-11	Oriented surface crystallization in 18BaO·22CaO·60SiO2 and MgO·CaO·2SiO2 glasses	Christopher Tielemann	Federal Institute for Materials Research and Testing - BAM
	15:40	GS-D3-12	Silver - alkali borate glass pastes	Lina Heuser	Federal Institute for Materials Research and Testing (BAM)
	16:00	GS-D3-13	***(INVITED)*** Crystallization from Glass: Application to Transparent (Glass-)Ceramics	Mathieu Allix	Centre National de la Recherche Scientifique
2020/12/9	16:50	***KEYNOTE SPEECH*** (Chair：Satoshi Yoshida) ***move to ROOM Live***	What we can learn from the mechanical behavior of glasses about their atomic and molecular structure	Tanguy Rouxel	University of Rennes 1
2020/12/9	18:00	***CLOSING*** ***move to ROOM Live***			

*PROGRAM @ **ROOM 3** in Time Zone, **JST***

DATE	TIME ZONE JST	PAPER No.	TITLE	PRESENTOR	INSTITUTE
2020/12/8	8:00	***KEYNOTE SPEECH*** (Chair：Takahiro Ishio) ***move to ROOM Live***	Vitrification of Nuclear Wastes	Ian L. Pegg	The Catholic University of America
2020/12/8	9:00	NWG-D2-01	***(INVITED)*** Current status and future plans of the development of vitrification technology in JNFL	Norie Hirao	Japan Nuclear Fuel Limited
	9:30	NWG-D2-02	Evaluation of the suppressing crystallization of simulated radioactive waste glass by the addition of components under slow cooling condition	Ayaka Sekine	Akita University
	9:50	NWG-D2-03	Investigation of alkaline liquid waste treatment for high burnup spent fuel reprocessing	Kohei Owaku	Japan Nuclear Fuel Limited
	10:10	Break (20 min)			
	10:30	NWG-D2-04	***(INVITED)*** Structural analyses of nuclear waste glasses in Japan	Atsunobu Masuno	Hirosaki University
	11:00	NWG-D2-05	Pair distribution function analysis of simulated nuclear waste glass	Yasuhiro Yoneda	Japan Atomic Energy Agency
	11:20	NWG-D2-06	Development of stress-strain analysis with synchrotron radiation x-ray for simulated waste glass samples	Aki Tominaga	Japan Atomic Energy Agency
	11:40	Lunch & break			
2020/12/8	13:00	***Student and Young Researcher Forum on Glass Research Part 1 (See SYRF program)***			
2020/12/8	15:00	***Student and Young Researcher Forum on Glass Research Part 2 (See SYRF program)***			
2020/12/8	16:50	***KEYNOTE SPEECH*** (Chair：Noriyuki Yoshida) ***move to ROOM Live***	Recent Trends in European Glass Industry	Erik Muijsenberg	GLASS SERVICE

2020/12/9	8:00	***KEYNOTE SPEECH*** (Chair：Yoshihiro Takahashi) ***move to ROOM Live***	Multicomponent Photonic Glasses and Fibers	Shifeng Zhou	South China University of Technology
2020/12/9	9:00	***KEYNOTE SPEECH*** (Chair：Seiichiro Mitsui) ***move to ROOM Live***	Evaluating an Uncertain Future: International efforts to develop the scientific basis for the long-term behavior of high-level nuclear waste glass	Joseph Ryan	Pacific Northwest National Laboratory
2020/12/9	10:00	NWG-D3-01	***(INVITED)*** Insights into the mechanisms controlling the residual corrosion rate of borosilicate glasses	STEPHANE GIN	CEA
	10:30	NWG-D3-02	***(INVITED)*** Mechanistic understanding of borosilicate nuclear waste glass dissolution from atomistic computer simulations	Jincheng Du	University of North Texas
	11:00	Break (20 min)			
	11:20	NWG-D3-03	***(INVITED)*** Effects of steel overpack on aqueous alteration of vitrified high-level radioactive waste	Hajime Iwata	Japan Atomic Energy Agency
	11:50	NWG-D3-04	Formation of surface alteration layers under flow through conditions observed in operando by fluid-cell Raman spectroscopy	Moritz Bernd Karl Fritzsche	University of Bonn
	12:10	NWG-D3-05	***(INVITED)*** Vitrification and geological disposal of high-level radioactive waste: Integrated approach for their technical options and optimization of nuclear fuel cycle system	Tomofumi Sakuragi	Radioactive Waste Management Funding and Research Center
	12:40	Lunch ＆ Break			
	14:00	NWG-D3-06	Formation, structure, and properties of cold cap from nuclear-waste-slurry melter-feed	Richard Pokorny	University of Chemistry and Technology Prague
	14:20	NWG-D3-07	***(INVITED)*** Mechanism and countermeasure for molybdate phase separation in vitrification process of high-level liquid wastes	Kazuyoshi Uruga	Central Research Institute of Electric Power Industry
	14:50	Break (20 min)			
	15:10	NWG-D3-08	Using CFD to Understand the Effect of Gas Bubbles Beneath the Cold Cap on Melt Rate during Nuclear Waste Vitrification	Donna Post Guillen	Idaho National Laboratory
	15:30	NWG-D3-09	Simultaneous Evaluation of Viscous and Crystallization Behaviors of Silicate Melts by Capacitance and Viscosity Measurements	Noritaka Saito	Kyushu University

	15:50	Lunch ＆ Break			
2020/12/9	16:50	***KEYNOTE SPEECH*** (Chair：Satoshi Yoshida) **move to *ROOM Live***	What we can learn from the mechanical behavior of glasses about their atomic and molecular structure	Tanguy Rouxel	University of Rennes 1
2020/12/9	18:00	***CLOSING*** ***move to ROOM Live***			

*PROGRAM of **STUDENT AND YOUNG RESEARCHER FORUM ON GLASS RESEARCH AT all ROOMs** in all Time Zone*

DATE	TIME ZONE				PAPER No.	TITLE	SPEAKER	INSTITUTE
	JST	CET	EST	PST				
2020/12/8	13:00	15:00	14:00	13:00	SYRF-P1-01	Thermal diffusivity of borosilicate glasses near the glass transition temperature	Ryo Momikura	The University of Shiga Prefecture
Part 1	13:20	15:20	14:20	13:20	SYRF-P1-02	The structural investigation of 2-step ion-exchanged strengthened glass with polarized micro-Raman spectroscopy	Shingo Ebukuro	Tohoku University
	13:40	15:40	14:40	13:40	SYRF-P1-03	Characterization and neutron activation simulations of Y-90 containing glass microspheres	Maria Laura Cruz	Centro Atmico Bariloche (CNEA)
	14:00	16:00	15:00	14:00	SYRF-P1-04	Effect of solution condition for Hierarchical Nanoporous Layer formation on aluminoborosilicate glass	Shin Ito	The University of Tokyo
	14:20	16:20	15:20	14:20	SYRF-P1-05	Combinatorial approach on the development of borosilicate glasses and vitrification with high-concentration HLW using fine glass powder as starting material	Shintaro Matsumoto	Tokyo Institute of Technology
	14:40	16:40	15:40	14:40	SYRF-P1-06	Effect of glass powder pellets on vitrification of simulated radioactive waste	Nanako Ueda	Tokyo Institute of Technology
2020/12/8	15:00	17:00	16:00	17:00	SYRF-P2-01	Optical properties and electronic structures of GeS2-Sb2S3 glasses - MD simulation and DFT calculation study -	Kohei Iwasaki	Kyoto Institute of Technology
Part 2	15:20	17:20	16:20	17:20	SYRF-P2-02	Glass formation and properties of the glasses in the systems, Ga-Ge-Te incorporated with the fourth elements Sn, Sb, Bi and Ag	Daichi Shirai	Kyoto Institute of Technology
	15:40	17:40	16:40	17:40	SYRF-P2-03	Evaluation of Morphology and Pockels Effect in Titanogermanate Glass-Ceramics toward Fiber-type Modulator	Haruki Okamoto	Tohoku University
	16:00	18:00	17:00	18:00	SYRF-P2-04	Mechanism and model for radiophotoluminescence phenomenon in Cu-doped silica glass	Yuya Takada	Kyoto Institute of Technology
	16:20	18:20	17:20	18:20	SYRF-P2-05	Fabrication of multi-phased photocatalytic glass-ceramics and its photocatalytic performance	OhHyeok Kwon	Tohoku university

List of the presentations given by Students and Young researchers

DATE	TIME ZONE				PAPER No.	TITLE	SPEAKER	INSTITUTE
	JST	CET	EST	PST				
2020/12/7	9:40	10:40	10:40	10:40	GS-D1-02	Structural study and biological activity of borate glasses	Sara Aqdim	University Hassan II of Casablanca
	10:00	11:00	11:00	11:00	GS-D1-03	Characterization of porous glass microspheres for doxorubicin administration	Bryan Alexander Escalante Castro	Medical and Industrial Application Division Nuclear Materials Department Bariloche Atomic Centre
	10:40	11:40	11:40	11:40	GS-D1-05	Preparation of oxide-based sodium all-solid-state batteries by laser irradiation	Masafumi Hiratsuka	Nagaoka University of Technology
	11:00	12:00	12:00	12:00	GS-D1-06	Preparation of all-solid-state Na battery using 5 V class cathode glass-ceramics	YONGZHENG JI	Nagaoka University of Technology
	11:20	12:20	12:20	12:20	GS-D1-07	A transferable force field for lithium phosphosulfide solid electrolytes	Shunsuke Ariga	Chiba University
	16:00	17:00	17:00	18:00	GS-D1-14	A machine learning approach to propose optimized glass compositions	Takuya Hori	Chiba University
	16:20	17:20	17:20	18:20	GS-D1-15	Neural network analysis of the viscosity of melt in the system SiO2-Al2O3-CaO-MgO-Na2O	Kazutaka Matsuyama	Akita University
	16:40	17:40	17:40	18:40	GS-D1-16	Neural network for predicting the fragility index and the temperature-dependency of viscosity	Daniel Cassar	Federal University of Sao Carlos
2020/12/8	9:30	10:30	10:30	9:30	NWG-D2-02	Evaluation of the suppressing crystallization of simulated radioactive waste glass by the addition of components under slow cooling condition	Ayaka Sekine	Akita University
	11:40	12:40	12:40	11:40	GS-D2-08	Photoluminescence properties and quantum efficiency of Nd3+-doped TeO2-K2O-Ga2O3 glasses prepared with various crucibles	Natsumi Hosokawa	Nagoya Institute of Technology
	13:00	15:00	14:00	13:00	SYRF-P1-01	Thermal diffusivity of borosilicate glasses near the glass transition temperature	Ryo Momikura	The University of Shiga Prefecture
	13:20	15:20	14:20	13:20	SYRF-P1-02	The structural investigation of 2-step ion-exchanged strengthened glass with polarized micro-Raman spectroscopy	Shingo Ebukuro	Tohoku University
	13:40	15:40	14:40	13:40	SYRF-P1-03	Characterization and neutron activation simulations of Y-90 containing glass microspheres	Maria Laura Cruz	Centro Atmico Bariloche (CNEA)
	14:00	16:00	15:00	14:00	SYRF-P1-04	Effect of solution condition for Hierarchical Nanoporous Layer formation on aluminoborosilicate glass	Shin Ito	The University of Tokyo
	14:20	16:20	15:20	14:20	SYRF-P1-05	Combinatorial approach on the development of borosilicate glasses and vitrification with high-concentration HLW using fine glass powder as starting material	Shintaro Matsumoto	Tokyo Institute of Technology
	14:40	16:40	15:40	14:40	SYRF-P1-06	Effect of glass powder pellets on vitrification of simulated radioactive waste	Nanako Ueda	Tokyo Institute of Technology
	15:00	17:00	16:00	17:00	SYRF-P2-01	Optical properties and electronic structures of GeS2-Sb2S3 glasses - MD simulation and DFT calculation study -	Kohei Iwasaki	Kyoto Institute of Technology
	15:20	17:20	16:20	17:20	SYRF-P2-02	Glass formation and properties of the glasses in the systems, Ga-Ge-Te incorporated with the fourth elements Sn, Sb, Bi and Ag	Daichi Shirai	Kyoto Institute of Technology
	15:40	17:40	16:40	17:40	SYRF-P2-03	Evaluation of Morphology and Pockels Effect in Titanogermanate Glass-Ceramics toward Fiber-type Modulator	Haruki Okamoto	Tohoku University

	16:00	18:00	17:00	18:00	SYRF-P2-04	Mechanism and model for radiophotoluminescence phenomenon in Cu-doped silica glass	Yuya Takada	Kyoto Institute of Technology
	16:20	18:20	17:20	18:20	SYRF-P2-05	Fabrication of multi-phased photocatalytic glass-ceramics and its photocatalytic performance	OhHyeok Kwon	Tohoku university
2020/12/9	10:20	10:00	10:00	10:20	GS-D3-01	Improvement in fracture toughness of soda-lime silicate glass via incorporation of silver nanoparticles	Lei Liu	National Institute of Advanced Industrial Science and Technology
	11:40	11:20	11:20	11:40	GS-D3-04	Effect of high-repetition rate femtosecond laser pulses exposure on ternary tellurite glass	Gozden Torun	Ecole Polytechnique Fdrale de Lausanne
	12:00	11:40	11:40	12:00	GS-D3-05	Composition dependence of the Soret effect in binary B2O3-SiO2 glass melts	Kenzo Sato	Kyoto University
	15:40	17:40	15:40	15:40	GS-D3-12	Silver - alkali borate glass pastes	Lina Heuser	Federal Institute for Materials Research and Testing (BAM)
	11:50	17:50	11:50	11:50	NWG-D3-04	Formation of surface alteration layers under flow through conditions observed in operando by fluid-cell Raman spectroscopy	Moritz Bernd Karl Fritzsche	University of Bonn