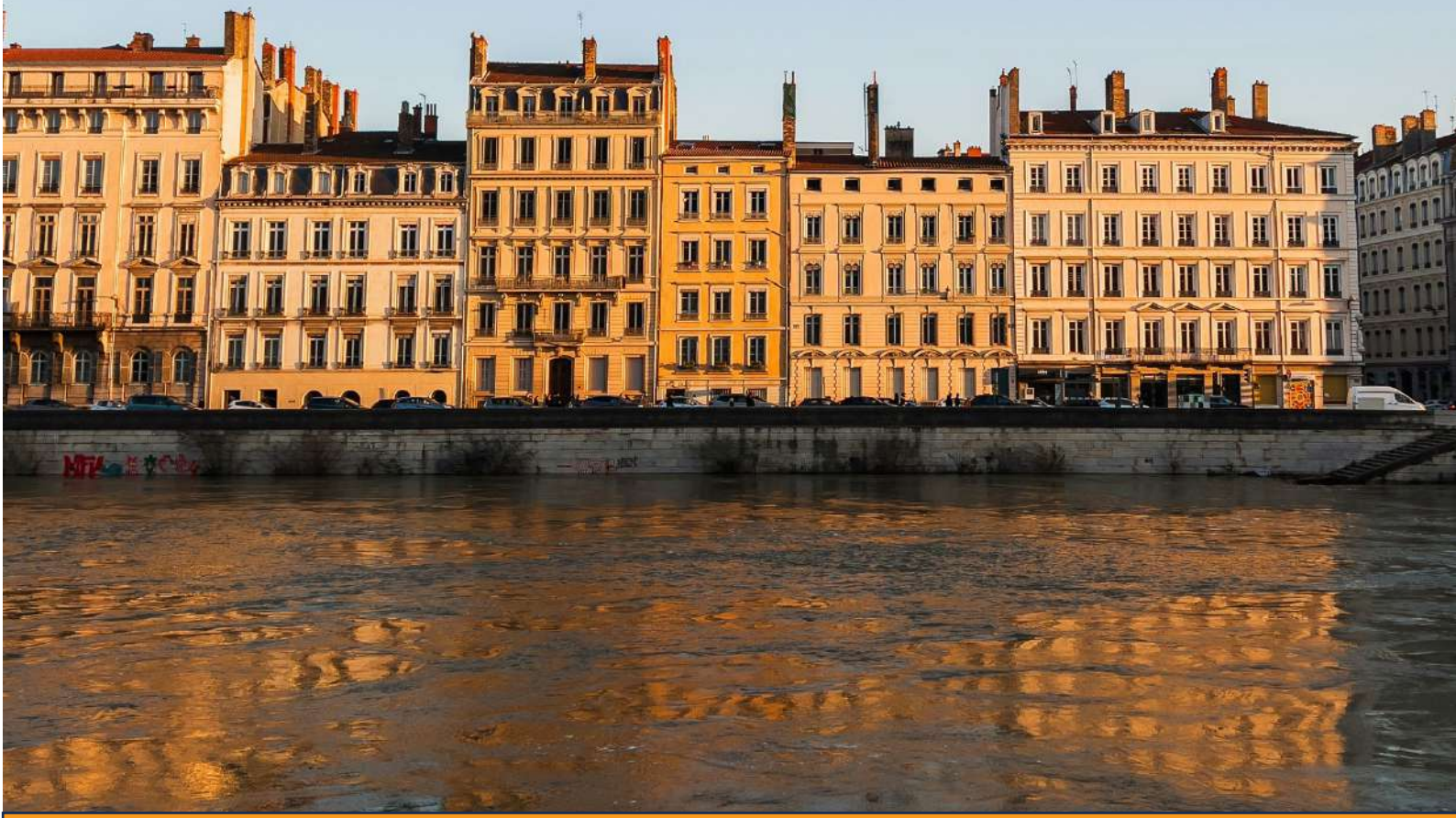
GLASS LYON 2026

18th European Society of Glass Conference & Annual meeting of the International Commission on Glass

13 -17 April 2026 - Lyon



PROGRAM

GLASS LYON 2026 - BIENVENUE !

Dear Colleagues !

It is our great pleasure to welcome you to the 18th European Society of Glass Conference (ESG), held jointly with the annual meeting of the International Commission on Glass and organized by USTV (Union for Glass Science and Technology). We are delighted to host more than 450 glass scientists from industrial and academic laboratories, representing 32 countries.

The congress features seven plenary lectures delivered by distinguished speakers: Delia Brauer (University of Jena), Heike Ebendorff-Heidepriem (Optofab Adelaide Hub, Australian National Fabrication Facility), Liping Huang (Rensselaer Polytechnic Institute, Troy, New York), Thibault Charpentier (CEA Saclay), Shinji Kohara (National Institute for Materials Science, Tsukuba), Pierre Lucas (University of Arizona), and Erik Muijsenberg (Glass Service).

Four prestigious awards will be presented during the conference: the Otto Schott Award, the Gottardi Award, the Mott Award, and the USTV Award.
The scientific program includes 10 sessions and featuring 301 oral presentations. Two poster sessions will also be held, showcasing 90 posters. We warmly encourage you to visit the exhibition area, located at the heart of the conference venue.

We would like to take this opportunity to thank our many sponsors for their generous support: Schott, AGC, IRIS, SEFPRO, Şişecam, Verallia, CEA, CBMM, Corning, Horn, NEG, Saint-Gobain, Ögussa, Owens Corning, Université Paris-Saclay, Agilent, HTM, Glass Global, Glass International, and Verrerie de Saint-Just.

We also wish to express our sincere gratitude to our partners: the International Commission on Glass, ILM, the Auvergne-Rhône-Alpes Region, AFAV, the Journal of Non-Crystalline Solids, CNRS, and Glass Europe journal in total open access.
Bienvenue, and welcome to Lyon.

We hope that all participants of the Lyon Glass Meeting will enjoy the venue, the quality of the food—especially the many regional gastronomic specialties—and, above all, the outstanding scientific quality of the presentations.

The GLASS LYON 2026 organizing committee

PLATINUM SPONSOR

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GLASS EUROPE

Glass Europe is a cost-free, peer-reviewed, worldwide open access journal, built by the community of European glass scientists and glass technologists, committed to timely-publishing service.

Glass Europe publishes results of original research, as well as reviews and perspective articles. Potential topics include - but are not limited to – physics, chemistry, properties, structure, applications, sustainability, forming, recycling, quality and history of glasses, glass-ceramics and melts.

Glass Europe is published by Deutsche Glastechnische Gesellschaft e.V. (DGG) and Union pour la Science et la Technologie Verrières (USTV).

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www.glass-europe.com

GENERAL ONSITE INFORMATION

Convention Centre Rooms

GLASS LYON 2026 will take place in Lyon, France. All activities — including registration, poster sessions, presentations, the exhibition, and refreshments — will be held at the Lyon Convention Center. Oral sessions will be held in rooms located on the 2nd and 3rd floors, while plenary sessions will be held in the Auditorium Lumière (basement).

Coffee Breaks & Lunches

Refreshments, including coffee and tea, will be available in FORUM 3 on Monday, and in FORUM 1 & 2 at around 10:30 and again in the afternoon at approximately 15:30.
Lunch will be served between 12:30 and 14:00 on Monday, Tuesday, and Thursday. On Monday, meals will be provided in FORUM 3 (basement), while on the other days they will be served in FORUM 1 & 2 (basement).
A lunch box can also be arranged for Wednesday at noon upon request.

Wireless Internet Access

Please use WiFi sparingly, because bandwidth is finite and this will speed connection times for others delegates. All delegates may access the wireless internet on all floors of the Congress Centre.
The conference network name is **Glasslyon** and the password is **Glasslyon**.

Registration & Help Desk Opening Times

Registration and the Help Desk will be open at the entrance of the Congress Center from 08:00 - 18:30 on Monday, Tuesday and Thursday. The Help Desk will be open from 08:00 – 14:00 on Wednesday and Friday.

Name Badges

Please be sure to wear your name badge at all times. Admission to Lyon's Convention Center and all sessions will require identification by your badge. If you lose your name badge please visit the Help Desk.

Lost & Found

All items found in the Congress Centre should be brought to the Help Desk.

Insurance & Responsibility

Liability insurance is the responsibility of each individual delegate. Delegates should have their own medical coverage. The Organizing Committee assumes no responsibility for accident, losses, damage, delays, or any modifications to the program arising from unforeseeable circumstances. It accepts no responsibility for travel or accommodation arrangements. The participant acknowledges that he/she has no right to lodge damage claims against the USTV or Lyon's Convention Center should the conference proceeding be hindered or prevented by unexpected political or economic events, or should the non-appearance of speakers or other reasons necessitate program changes.

Smoking Policy

For the comfort of delegates, all rooms used by the conference have been designated as non-smoking areas, including the stairwells and the entrance of Lyon's Convention Center.

GOLD SPONSORS

ORAL PRESENTATION INSTRUCTIONS

Oral Presentation Times

Sessions with oral presentations will take place on Tuesday and Thursday from 08:30-12:45 and 14:00-18:30. On Wednesday and Friday, oral presentations will take place from 08:30-12:45.

Uploading your talk

You may upload your talk in the room on the day of your presentation. Presenters can upload from 08:15 in the morning before the sessions, or during the coffee break and lunch break. We do recommend that all presenters bring their talk on a USB.

Talk Timing

Speakers should arrive at their allocated room no less than 20 minutes before the start of the first presentation in order to meet with the chairperson. All presentations must be given in English, which is the official language of the Conference. Oral presentations are allocated 15 minutes, invited speakers 30 minutes and plenary lectures 45 minutes. 15-minute talks should be finished after 12 minutes, and 30-minute invited talks after 25 minutes, to leave time for discussion. The chairperson will give a first signal after 10 minutes, a warning after 12 minutes and prevent further talking after 15 minutes. It is essential for the success of the conference that the speakers keep strictly to this scheme to ensure that all parallel sessions are synchronized.

Mobile Phones, Pagers, Cameras and Video Cameras

Delegates are required to mute or turn off their cell phones and pagers during oral presentations. **No photography or videoing** is permitted in any of the oral sessions or at the poster sessions without the permission of the relevant oral presenter or authors of the poster.

SILVER SPONSORS

POSTER PRESENTATION INSTRUCTIONS

Poster Presentation Times

There will be 2 afternoon sessions for poster presentations on Monday and Thursday. Posters should be put up from lunch time on Monday. The materials required to attach each poster to the board will be supplied. Posters should be removed at the end of the second poster session on Friday (around 10:30). Posters not collected by this time will be removed by the conference organizers and recycled.

Poster Location

The posters will be displayed in FORUM 1 & 2 rooms located in the basement. Poster board numbers are given in the Program Volume (See page 60).

Poster Size

The poster boards are large enough to fit a size A0 poster in portrait orientation (this is 33.1'' × 46.8'' or 841mm × 1189mm). Oversize posters will not be displayed.

Poster Etiquette

The poster sessions are from 17:15-18:45 on Monday and from 14:00-15:00 on Thursday. Delegates should expect to be available by their poster for most of this time.

Cameras & Video Cameras

No photography or videoing is permitted at any of the poster sessions without the permission of the authors of the poster.

PARTNERS

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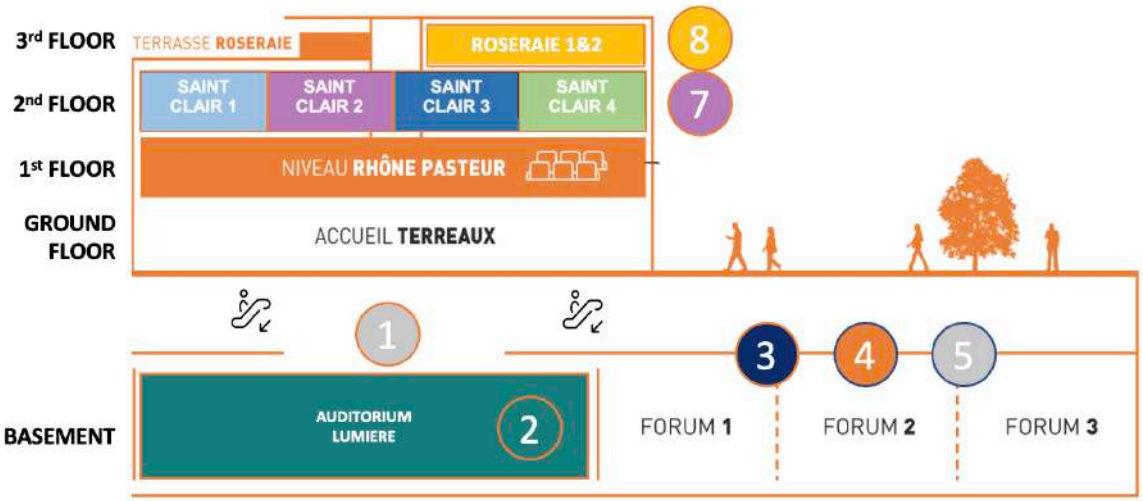
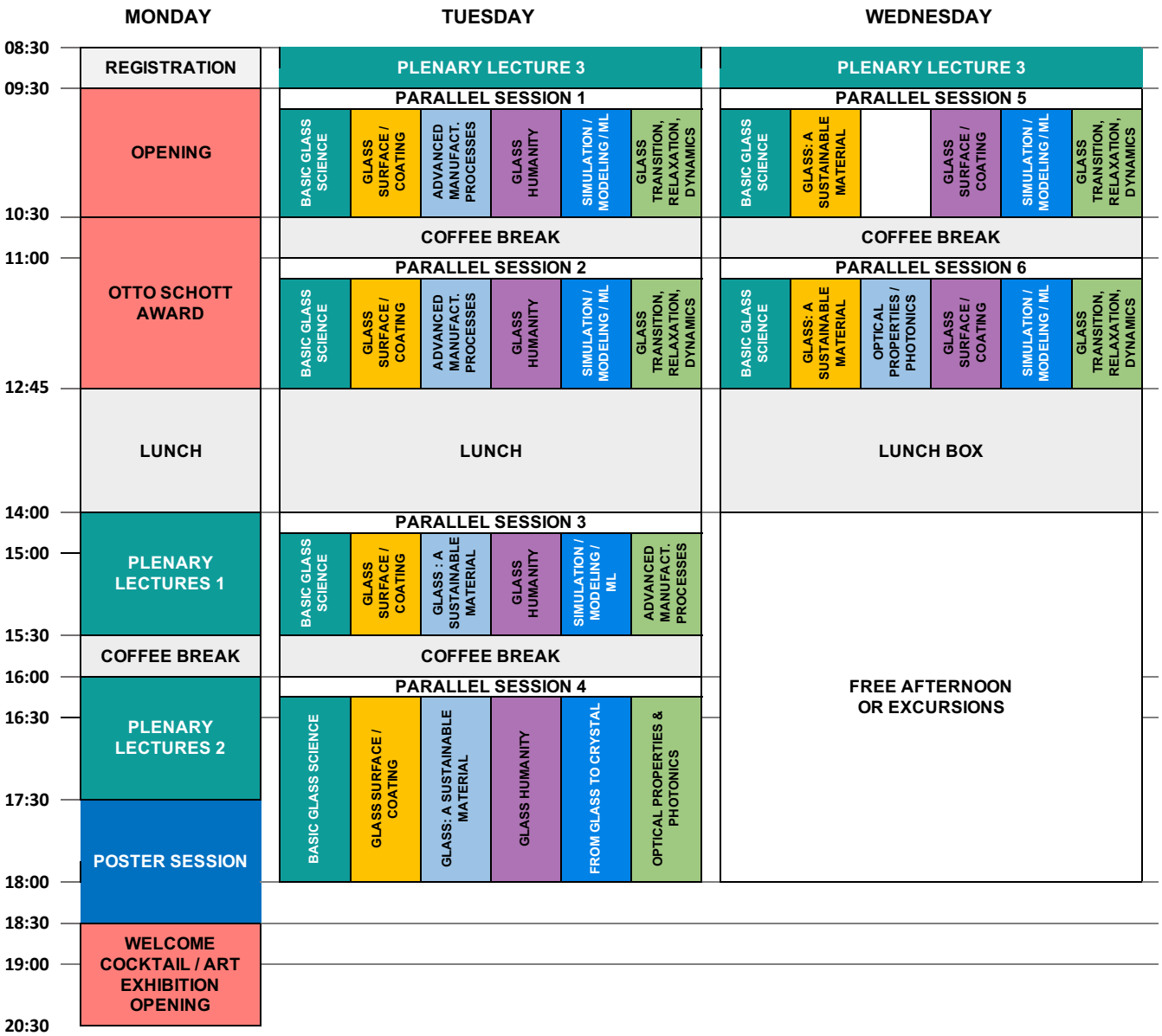
CONGRESS CENTER



ENTRANCE	1	REGISTRATION HELP DESK
LUMIERE	2	PLENARY LECTURES
FORUM 1 & 2	3	POSTERS
FORUM 1 & 2	4	LUNCH
FORUM 1 & 2	5	COFFEE EXHIBITORS
FORUM 1 & 2	6	ART EXHIBITION
LUMIERE	2	PARALLEL SESSIONS
SAINT CLAIR 1, 2, 3 & 4	7	
ROSERAIE 1 & 2	8	

CONFERENCE PROGRAM AT A GLANCE



THURSDAY

PLENARY LECTURE 4

PARALLEL SESSION 7

BASIC GLASS SCIENCE	FROM GLASS TO CRYSTAL	OPTICAL PROPERTIES & PHOTONICS	ADVANCED MANUFACT. PROCESSES	GLASS: A SUSTAINABLE MATERIAL	GLASS FOR HEALTHCARE & MEDICAL APP.

COFFEE BREAK

PARALLEL SESSION 8

BASIC GLASS SCIENCE	FROM GLASS TO CRYSTAL	OPTICAL PROPERTIES & PHOTONICS	ADVANCED MANUFACT. PROCESSES	GLASS: A SUSTAINABLE MATERIAL	SIMULATION / MODELING / ML

LUNCH

POSTER SESSION

PARALLEL SESSION 9

BASIC GLASS SCIENCE	FROM GLASS TO CRYSTAL	OPTICAL PROPERTIES & PHOTONICS	ADVANCED MANUFACT. PROCESSES	SIMULATION / MODELING / ML	GLASS FOR HEALTHCARE & MEDICAL APP.

COFFEE BREAK

PARALLEL SESSION 10

BASIC GLASS SCIENCE	FROM GLASS. TO CRYSTAL	OPTICAL PROPERTIES & PHOTONICS	ADVANCED MANUFACT. PROCESSES	SIMULATION / MODELING / ML	GLASS FOR HEALTHCARE & MEDICAL APP.

BANQUET

FRIDAY

GOTTARDI AWARD | **USTV AWARD** | **MOTT LECTURE**

PARALLEL SESSION 11

GLASS: A SUSTAINABLE MATERIAL	FROM GLASS TO CRYSTAL	OPTICAL PROPERTIES & PHOTONICS	BASIC GLASS SCIENCE	GLASS FOR HEALTHCARE & MEDICAL APP.

COFFEE BREAK

PARALLEL SESSION 12

GLASS: A SUSTAINABLE MATERIAL	FROM GLASS TO CRYSTAL	OPTICAL PROPERTIES & PHOTONICS	BASIC GLASS SCIENCE	GLASS FOR HEALTHCARE & MEDICAL APP.

CLOSING

PLENARIES

Monday 13th April

Auditorium Lumière

13:45 - Delia Brauer

Iena University, Germany

Paving the way for bioactivity: Early stage reactions between bioactive glass and water

14:30 – Shinji Kohara

National Institute for Materials Science, Japan

Intermediate-range order in disordered materials

16:00 – Liping Huang

Rensselaer Polytechnic Institute, USA

Intermediate-range order in disordered materials

16:45 – Erik Muijsenberg

Glass Service

Decarbonization pathway of the glass industry, challenges, opportunities for different segments and possible solutions regarding different energy inputs

PLENARIES

Tuesday 14th April

Auditorium Lumière

08:30 – Heike Ebendorff-Heidepriem

Institute for photonics and Advanced Sensing, Australia

Soft glasses: a powerful platformfor the exploration of new conceptsand applications

Wednesday 15th April

Auditorium Lumière

08:30 – Pierre Lucas

University of Arizona, USA

Phase change materials from the liquid and glass point of view

Thursday 16th April

Auditorium Lumière

08:30 – Thibault Charpentier

CEA, France

Last advances in NMR of glasses: combining experiments and computational modelling

AWARDS

Monday 13th April

11:00 / Auditorium Lumière

OTTO SCHOTT RESEARCH AWARD

Awarded to **Kathleen Richardson**

Awarded to **Steve Martin**

The Otto Schott Research Award alternates with the Carl Zeiss Research Award every year in recognition of excellence in scientific research and motivational support for cooperation between scientific research and industry.

Friday 17th April

08:30 / Room SAINT CLAIR 2

USTV Ph-D AWARD

Awarded to **Nadezhda Shchedrina**

Each year, the USTV Ph-D Award recognizes a young researcher who has completed a doctoral thesis in a French doctoral school in one of the fields of glass science: basic or applied research ranging from material sciences to Earth's sciences.

08:30 / Room Roseraie 1 & 2

GOTTARDI AWARD

Awarded to **N. M. Anoop Krishnan**

Initiated in 1987 in memory of Prof. V. Gottardi, the Gottardi price is awarded annually to young people with outstanding achievements in the field of glass in research and development, teaching, writing, management or commerce.

08:30 / Room SAINT CLAIR 3

N.F. MOTT LECTURE

Awarded to **Yuanzheng Yue**

The N.F. Mott Award is granted in memory of Sir Nevill Francis Mott. This biannual award recognizes a distinguished senior scientist with a history of outstanding contribution to the science of non-crystalline solids over many years.

SOCIAL EVENTS

WELCOME RECEPTION

Monday 13th April: 18:00 – 20:30
Location: FORUM 1 & 2

The Welcome Reception is the perfect time to catch up with colleagues that you haven't seen over the year, and meet new people in your field. All delegates are warmly invited and encouraged to attend.

GLASS LYON BANQUET

Thursday 16th April: 19:00 – 23:00
Location: Palais de la Bourse – Place de la Bourse, Lyon

ART EXHIBITION

From Monday 13th April 14:00 to Friday 12:00
Location: FORUM 1 & 2
Exhibition opening: Monday 13th April – 18:30

List of exhibited Artists :

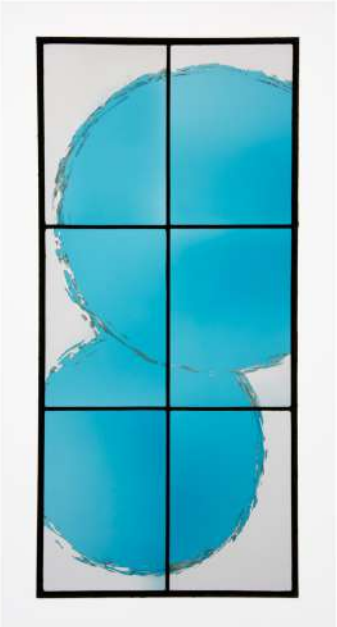
Thomas ARNAL
Céline BACHELOT
Claude BAILLON
Théo BEAUMONT
Wilfried BECRET
Yves BRAUN
Atelier FAUCHER (M. Monel, J.J. Fanjat et M. Faucher)
Sylvie FREYCENON
Allain GUILLOT
Frédéric GUILLOT
Corinne JOACHIM
Lycée Jean Monnet, École Française du verre, Yzeure
Fabienne PICAUD
HORIZON VERRE
Olivier MALLEMOUCHE
Véronique MONOD
Simon RIO
Georges STAHL

ART EXHIBITION

Archipel
Simon Rio

Bulles
C. Joachim

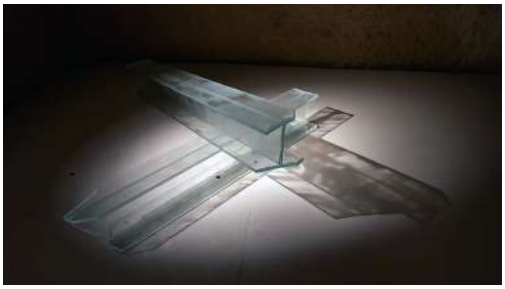
Monel Vitraux



Vase
Allain Guillot

Théo Beaumont

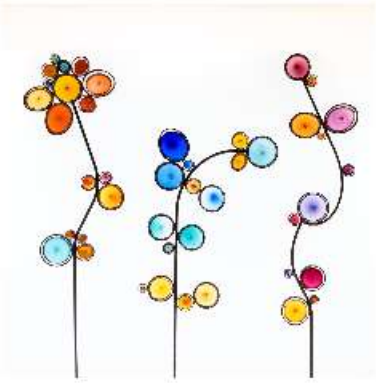
PTL
Baux



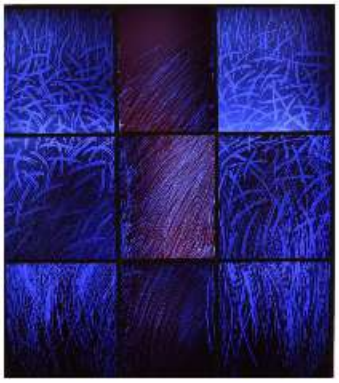
Cube Hélicoidal
Thomas Arnal

Magma XL
Justin Hémery

3 Fleurs Sauvages
Fabienne Picaud



Vitraux
Fanjat



Pesanteur
Mélanie Gracia

Paravent
Atelier Faucher

Verres Maturés
Olivier Juteau

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Conference Schedule

MONDAY 13h APRIL AM

TIMETABLE

09:30 - 10:30 › **OPENING CEREMONY**

Daniel NEUVILLE, Erik MUIJSENBERG

Auditorium LUMIERE

LUMIERE

10:30 – 12:45 › **OTTO SCHOTT AWARD**

Session Chair: Matthias MULLER

Auditorium LUMIERE

12:45 - 14:00 › **LUNCH**
FORUM 3

MONDAY 13h APRIL - PM

LUMIERE

PLENARY LECTURE 1

Session Chair: Daniel NEUVILLE, Corinne PAYEN

14:00 › **Delia BRAUER,** *Iena University, Iena, Germany*
Paving the way for bioactivity: Early stage reactions between bioactive glass and water

14:45 › **Shinji KOHARA,** *National Institute for Materials Science, Tsukuba, Japan*
Intermediate-range order in disordered materials

15:30 - 16:00 › **COFFEE BREAK**
FORUM 3

LUMIERE

PLENARY LECTURE 2

Session Chair: Daniel NEUVILLE, Corinne PAYEN

16:00 › **Liping HUANG,** *Rensselaer Polytechnic Institute, Troy, New-York, USA*
Uncovering Hidden Glass

16:45 › **Erik MUIJSENBERG,** *Glass Service*
Decarbonization pathway of the glass industry, challenges, opportunities for different segments and possible solutions regarding different energy inputs

17:30 – 18h45 › **POSTER SESSION**
FORUM1&2

18:45 – 20h30 › **WELCOME COCKTAIL / EXHIBITION INAUGURATION**
FORUM 1&2

TUESDAY 14th APRIL - AM

TIMETABLE

LUMIERE

08:30 – 09:15 › **PLENARY LECTURE**

Session Chair: Matthieu LANCRY

Auditorium LUMIERE

Heike EBENDORFF-HEIDEPRIEM, *Adelaide University, Australia*
Soft glasses: a powerful platform for the exploration of new concepts and applications

09:30 – 10:30 › **PARALLEL SESSIONS 1**

BASIC GLASS SCIENCES - 1 – *LUMIERE*
GLASS SURFACE AND COATING - 1 – *ROSERAIE 1&2*
ADVANCED MANUFACTURING PROCESSES - 1 – *SAINT CLAIR 1*
GLASS AND HUMANITY - 1 – *SAINT CLAIR 2*
SIMULATION, MODELING, MACHINE LEARNING - 1 – *SAINT CLAIR 3*
GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 1 – *SAINT CLAIR 4*

10:30 - 11:00 › **COFFEE BREAK**
FORUM 1&2

11:00 – 12:45 › **PARALLEL SESSIONS 2**

BASIC GLASS SCIENCES - 2 – *LUMIERE*
GLASS SURFACE AND COATING - 2 – *ROSERAIE 1&2*
ADVANCED MANUFACTURING PROCESSES - 2 – *SAINT CLAIR 1*
GLASS AND HUMANITY - 2 – *SAINT CLAIR 2*
SIMULATION, MODELING, MACHINE LEARNING - 2 – *SAINT CLAIR 3*
GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 2 – *SAINT CLAIR 4*

12:45 - 14:00 › **LUNCH**
FORUM 1&2

TUESDAY 14th APRIL - AM

09:30 – 12:45 › PARALLEL SESSIONS 1&2

	LUMIERE	ROSERAIE 1&2	SAINT CLAIR 1	SAINT CLAIR 2	SAINT CLAIR 3	SAINT CLAIR 4
	BASIC GLASS SCIENCE - 1	GLASS SURFACE & COATING - 1	ADVANCED MANUFACTURING PROCESSES - 1	GLASS & HUMANITY - 1	SIMULATION, MODELING, MACHINE LEARNING - 1	GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 1
9:30 – 9:45	G. Rosales-Sosa	A. Goel	Y. Yue	A. Mexmain	S. Ispas	M. Jiang
9:45 – 10:00						
10:00 – 10:15	J. W. Jang	T. Sekine	I. Seibel-Geraschenko	M. Vilarigues	D. Backhouse	D. Long
10:15 – 10:30	J.-P. Guin	J. Sly	N. Chatzimina	R. Conradt	O. Räbiger	C. Crauste-Thibierge
COFFEE BREAK						
	BASIC GLASS SCIENCES – 2	GLASS SURFACE & COATING – 2	ADVANCED MANUFACTURING PROCESSES – 2	GLASS & HUMANITY – 2	SIMULATION, MODELING, MACHINE LEARNING – 2	GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 2
11:00 – 11:15	M. Holzer	G. Legrottaglie	J. Slowik	T. Palomar	M. Rahmani	I. Gallino
11:15 – 11:30	Y. Kato	M. Taron	O. Aroubi		O. McGann	
11:30 – 11:45	T. To	S. Gin	V. Diamanti	A. Hequet	A. Walnsch	S. Meyer
11:45 – 12:00	K. Shinozaki	N. Stone-Weiss	M. Milek	N. Schibille	F. Rodrigues	P.-E. Bes de Berc
12:00 – 12:15	G. Kermouche	D. Antony	L. Günther	A. Cadena-Irizar	A. Atila	R. Sevestre
12:15 – 12:30	S. M. Johansen	T. Fujima	T. Honma	C. Bretonnet	Z. Wang	J. Schneider
12:30 – 12:45	N. Kail	H. Kaya	J. Zhang	L. Tranchant	M. Polak	P. Habdas

TUESDAY 14th APRIL - AM

LUMIERE

BASIC GLASS SCIENCE - 1

Session Chair: Thierry DESCHAMPS

9:30 › **Invited: G. Rosales-Sosa,** *NEG*
Structure of alkaline-earth aluminosilicates and aluminoborosilicates: insights from neutron, X-ray diffraction and MD simulations

10:00 › **J. W. Jang,** *Kongju National University*
Chemical strengthening, mechanical properties, and structural analysis of SiO_2-B_2O_3-Al_2O_3-Na_2O glass system for enhanced bending resistance

10:15 › **J.-P. Guin,** *Universite de Rennes 1, CNRS*
A new nanometre resolution method for probing densification ratio at nanoindentation sites in glass: Unravelling discrepancies in the literature

10:30 - 11:00 › **COFFEE BREAK**

LUMIERE

BASIC GLASS SCIENCE - 2

Session Chair: Tetsuji YANO

11:00 › **M. Holzer,** *BAM*
Direct connection between secondary relaxation mode and fracture toughness in alkali-aluminosilicate glasses

11:15 › **Y. Kato,** *NEG*
Effect of alkaline-earth ions on shear localization and crack resistance under indentation tests in aluminoborosilicate glasses

11:30 › **T. To,** *Ecole centrale de Nantes, University of Rennes*
Composition and structural impact on thermal and mechanical properties of Mg-Al-Si-O-N Glasses

11:45 › **K. Shinozaki,** *National Institute of Advanced Industrial Science and Technology*
Enhancement of fracture toughness in glasses by Ag incorporation via ion exchange process

12:00 › **G. Kermouche,** *Ecole des Mines de Saint-Etienne, Université de Lyon*
A constitutive model for e-beam induced viscous flow in silicate glasses at room temperature

12:15 › **S. M. Johansen,** *Aalborg University*
Fracture toughness of calcium aluminosilicate glasses

12:30 › **N. Kail,** *Université Libre de Bruxelles*
Glasses of R_2O-B_2O_3-Al_2O_3 systems: study of structure-mechanical properties relationships at the metaluminous joint (R = Li, Na, K)

TUESDAY 14th APRIL - AM

ROSERAIE 1&2

GLASS SURFACE AND COATING - 1

Session Chair: Hervé MONTIGAUD, Nick SMITH

09:30 › **Invited: A. Goel**, *Rutgers, The State University of New Jersey*
Network polymerization, aluminum coordination, and the shifting mechanisms of glass dissolution

10:00 › **T. Sekine**, *AGC*
Diffusion coefficients of H and Na in aluminosilicate and soda-lime silicate glasses

10:15 › **J. Sly**, *Pennsylvania State University*
The formation and characterization of gel layers on modified aluminoborate glasses during aqueous corrosion

10:30 - 11:00 › **COFFEE BREAK**

ROSERAIE 1&2

GLASS SURFACE AND COATING - 2

Session Chair: Hervé MONTIGAUD, Nick SMITH

11:00 › **G. Legrottaglie,** *University Parma*
The effectiveness of liquid treatment for the dealkalization of pharmaceutical glass containers

11:15 › **M. Taron,** *University Montpellier, CEA Marcoule*
Impact of complex irradiation scenarios on the structure and the properties of the SON68 glass

11:30 › **S. Gin,** *CEA Marcoule*
Decoding glass durability: new insights into the role of composition

11:45 › **N. Stone-Weiss,** *Corning*
Design of chemical etch processes for multicomponent commercial glasses

12:00 › **D. Antony,** *Corning*
Multiscale modeling of heterogeneous etching

12:15 › **T. Fujima,** *Tokyo City University*
Three-fimensional structural characterization of hierarchical nanoporous layers formed by corrosion

12:30 › **H. Kaya,** *Corning*
Texturing glass surfaces for enhancing tactile experience

TUESDAY 14th APRIL - AM

SAINT CLAIR 1

ADVANCED MANUFACTURING PROCESSES - 1

Session Chair: Richard POKORNY

09:30 › **Invited: Y. Yue**, *Aalborg University*
Fabrication of large-sized hybrid glasses: progress, challenges and opportunities

10:00 › **I. Seibel-Geraschenko**, *Friedrich Schiller University Jena*
High-throughput glass synthesis by 3D-printing

10:15 › **N. Chatzimina**, *architectScripta*
The Pixel

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 1

ADVANCED MANUFACTURING PROCESSES - 2

Session Chair: Richard POKORNY, Terutaka MAEHARA

11:00 › **J. Slowik,** *Friedrich-Schiller-University Jena*
Fabrication of an alumina gradient doped silica fiber via additive manufacturing

11:15 › **O. Aroubi,** *Chpolansky*
Optimization of full cavity NiCr coating by cold spray on cast iron glass molds for glass industry

11:30 › **V. Diamanti,** *University of Padova*
Highly porous 3D-printed 70S30C bioglass scaffolds from engineered silicone-based emulsions

11:45 › **M. Milek,** *Technische Universität Bergakademie Freiberg*
Improving wetting behaviour of copper on glass for multi material 3D printing

12:00 › **L. Günther,** *Schott AG*
Microstructural analysis of ultra-short pulse laser welded glass-metal joints

12:15 › **T. Honma,** *Nagaoka University of Technology*
Laser irradiation to alkali ion conducting glass for all-solid-state battery

12:30 › **J. Zhang,** *Wuhan University of Technology*
Binary aluminate transparent ceramics and glass microspheres formation from plasma melting

TUESDAY 14th APRIL - AM

SAINT CLAIR 2

Glass and Humanity - 1

Session Chair: Ana Candida RODRIGUES, Ana CADENA-IRIZAR

09:30 › **Invited: A. Mexmain**, *Lycée Jean Monnet*
Glass professions and knowledge transmission: Between pedagogy, technique, and technology

10:00 › **M. Vilarigues**, *NOVA University of Lisbon*
Education in glass art and science – challenges of transdisciplinarity

10:15 › **R. Conradt**, *uniglass AC*
ICG Montpellier Summer School – History, concept, outcomes

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 2

Glass and Humanity - 2

Session Chair: Francesca COLANGELI, Elise LANGAGNE

11:00 › **Invited: T. Palomar,** *Instituto de Cerámica y Vidrio*
The Royal Glass Factory of La Granja: From the recipes to the pieces

11:30 › **A. Hequet,** P*olytechnique - X, CNRS, CEA*
Photoluminescence-based identification of Roman colorless glass groups in Reims

11:45 › **N. Schibille,** *Université d'Orléans, CNRS*
Coloured glass and mosaics in the medieval world

12:00 › **A. Cadena-Irizar,** *NOVA University of Lisbon*
From chemical clusters to provenance: Islamic glass in al-Andalus

12:15 › **C. Bretonnet,** *Sorbonne Université, CNRS, Museum National d'Histoire Naturelle*
A study of Cu and Fe redox interaction: thermodynamic insight into the "medieval green glass" coloration type

12:30 › **L. Tranchant,** *Museum National d'Histoire Naturelle, Université de Versailles Saint-Quentin-en-Yvelines, CNRS*
Identification of coloring agents of 19th and 20th century African glass beads using XRF and XAS spectroscopy

TUESDAY 14th APRIL - AM

SAINT CLAIR 3

SIMULATION, MODELING, MACHINE LEARNING - 1

Session Chair: Alfonse PEDONE

09:30 › **Invited: S. Ispas**, *University Montpellier, CNRS*
Surface alteration of silicate glasses via atomistic modeling

10:00 › **D. Backhouse**, *Glass Futures*
Next generation glass with Glass Futures: Building a digital furnace

10:15 › **O. Räbiger**, *CelSian*
AI-driven optimization of glass production: Overcoming industry challenges with Celfos

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 3

SIMULATION, MODELING, MACHINE LEARNING - 2

Session Chair: Daniel CASSAR

11:00 › **M. Rahmani,** *IRIS Inspection Machines*
How AI transforms visual inspection in glass bottle manufacturing

11:15 › **O. McGann,** *Glass Technology Services*
Modelling and simulation to address unique industrial challenges and unconventional applications of glass

11:30 › **A. Walnsch,** *GTT-Technologies*
Thermodynamic database development for novel agentic workflows designed for glass synthesis and application modelling

11:45 › **F. Rodrigues,** *SEFPRO*
Advanced modelling for regenerator design optimization: Driving energy efficiency in glassmaking

12:00 › **A. Atila,** *BAM*
Atomistic simulations of glasses made FAIR

12:15 › **Z. Wang,** *Wuhan University of Technology*
Designing high Young's modulus soda-lime-silica glass with reinforcement learning and genetic algorithm

12:30 › **M. Polak,** *Glass Service*
Refractory corrosion – a problem that could be predicted?

TUESDAY 14th APRIL - AM

SAINT CLAIR 4

GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 1

Session Chair: Damien VANDEMBROUCQ

09:30 › **Invited: M. Jiang**, *Chinese Academy of Sciences*
Unified theory of phonon in solids with phase diagram of non-Debye anomalies

10:00 › **D. Long**, *Université de Lyon, Institut National des Sciences Appliquées*
Memory and recovery effects in the strain hardening regime of glassy polymers : comparison between theory and experiments

10:15 ›**C. Crauste-Thibierge**, *Ecole Normale Supérieure de Lyon, Université de Lyon, CNRS*
Simultaneous memory effects in the stress and in the dielectric susceptibility of a stretched polymer glass

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 4

GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 2

Session Chair: Laurent CHAZEAU

11:00 › **Invited: I. Gallino,** *Technical University of Berlin*
On the nature of the glass transition in metallic glasses studied via fast scanning calorimetry

11:30 › **S. Meyer,** *Clausthal University of Technology*
Oxidation state-induced glass-forming ability of melts with high vanadium content

11:45 › **P.-E. Bes De Berc,** *Owens Corning*
Quenching rate and composition combined effect on structural properties and microstructure in magnesium aluminosilicates

12:00 › **R. Sevestre,** *Université de Rennes, CNRS*
Permanent structural modifications of silica glass after laser shock for different impulsion regime

12:15 › **J. Schneider,** *Universidade de São Paulo (IFSC-USP)*
Solid-state vitrification of Li and Al phosphates through high energy mechanical milling

12:30 › **P. Habdas,** *Saint Joseph's University*
Probing glassy dynamics and local elasticity in dense colloidal suspensions: insights from single-particle experiments

TUESDAY 14th APRIL - PM

TIMETABLE

14:00 – 15:30 › **PARALLEL SESSIONS 3**

BASIC GLASS SCIENCES - 3 – *LUMIERE*
GLASS SURFACE AND COATING - 3 – *ROSERAIE 1&2*
ADVANCED MANUFACTURING PROCESSES - 3 – *SAINT CLAIR 1*
GLASS AND HUMANITY - 3 – *SAINT CLAIR 2*
SIMULATION, MODELING, MACHINE LEARNING - 3 – *SAINT CLAIR 3*
GLASS A SUSTAINABLE MATERIAL - 1 – *SAINT CLAIR 4*

15:30 - 16:00 › **COFFEE BREAK**
FORUM 1&2

16:00 – 18:15 › **PARALLEL SESSIONS 4**

BASIC GLASS SCIENCES - 4 – *LUMIERE*
GLASS SURFACE AND COATING - 4 – *ROSERAIE 1&2*
OPTICAL PROPERTIES AND PHOTONICS - 1 – *SAINT CLAIR 1*
GLASS AND HUMANITY - 4 – *SAINT CLAIR 2*
GLASS TO CRYSTAL - 1 – *SAINT CLAIR 3*
GLASS A SUSTAINABLE MATERIAL - 2 – *SAINT CLAIR 4*

TUESDAY 14th APRIL - PM

14:00 – 15:30 › PARALLEL SESSIONS 3

	LUMIERE	ROSERAIE 1&2	SAINT CLAIR 1	SAINT CLAIR 2	SAINT CLAIR 3	SAINT CLAIR 4
	BASIC GLASS SCIENCE – 3	GLASS SURFACE & COATING – 3	ADVANCED MANUFACTURING PROCESSES – 3	GLASS & HUMANITY – 3	SIMULATION, MODELING, MACHINE LEARNING - 3	A SUSTAINABLE MATERIAL - 1
14:00 – 14:15	J.-P. Guin	N. Smith	T. Kishi	O. Majérus	C. Rountree	K. Xu
14:15 – 14:30	S. Yoshida				G. Molnar	
14:30 – 14:45	A. Pisch	T. Pastore	M. Østergaard	G. Eggert	B. Hehlen	C. Véronneau
14:45 – 15:00	G. Haryouli	R. Lancelotti	T. Lauridant	A. Kostka	K. Attou	A. Chakrabarti
15:00 – 15:15	F. Pigeonneau	L. Robert	L. Sennoun	C. Bardin	Z. Zhang	T. Pitarch
15:15 – 15:30	C. Rountree		I. Melscoet	F. Colangeli		M. Hunault

15:30 - 16:00 › COFFEE BREAK

TUESDAY 14th APRIL - PM

LUMIERE

BASIC GLASS SCIENCE - 3

Session Chair: Nadège OLLIER

14:00 › **J.-P. Guin,** *Universite de Rennes 1, CNRS*
A convincing demonstration of indenter tip geometry imperfection as the cause of the reported indentation size effect in glass

14:15 › **S. Yoshida,** *AGC*
Revisiting the rate-dependent hardness of glass

14:30 › **A. Pisch,** *Université Grenoble Alpes*
Alkaline earth – borate systems : thermodynamic modeling & key experiments

14:45 › **G. Haryouli,** *Le Mans U., U. d'Angers, CNRS, Nantes U.*
Semi-empirical modelling of Young's Modulus in aluminoborosilicate glasses from network chemistry and topology

15:00 › **F. Pigeonneau,** *Mines Paris, PSL, CNRS*
Interfacial tension and thickness in phase separation of R_mO_n-SiO_2 systems

15:15 › **C. Rountree,** *Université Paris-Saclay, CNRS, CEA Saclay*
Influence of phase Separation on stress corrosion cracking in SiO_2-B_2O_3-Na_2O glasses

ROSERAIE 1&2

GLASS SURFACE AND COATING - 3

Session Chair: Peggy GEORGES, Stéphane GIN

14:00 › **Invited: N. Smith,** *Corning*
Glass surface and etching considerations for use in advanced semiconductor packaging

14:30 › **T. Pastore,** *IMEM-CNR Institute, Parma*
Water-based organosilane coatings for low-friction and scratch-resistant pharmaceutical glass vials: From dipping to automated spray deposition

14:45 › **R. Lancelotti,** *Universidade Federal de São Carlos*
Factors governing staining of float glass exposed to an acid cleaning product

15:00 › **L. Robert,** *Saint Gobain Research Compiègne*
Development of low-carbon glass frits for glass enameling applications

TUESDAY 14th APRIL - PM

SAINT CLAIR 1

ADVANCED MANUFACTURING PROCESSES - 3

Session Chair: Terutaka MAEHARA

14:00 › **Invited: T. Kishi,** *Institute of Science Tokyo*
Room-temperature bonding of ultrathin freestanding glass films for optical and biomedical applications

14:30 › **M. Østergaard,** *Aalborg University*
Additive manufacturing of open porous glass foams using vat photopolymerization

14:45 › **T. Lauridant,** *Chpolansky*
Oxidation resistance and thermal performance of copper-based coatings on cast iron for glass manufacturing moulds

15:00 › **L. Sennoun,** *Univ. Lille, CNRS, Centrale Lille, Univ. Artois*
Glass as a binder material for additive manufacturing by Powder Bed Fusion

15:15 › **I. Melscoet,** *Faurecia Clarion Electronics*
The secret face of hidden displays

SAINT CLAIR 2

Glass and Humanity - 3

Session Chair: Mathieu HUBERT, Théo CAROFF

14:00 › **Invited: O. Majérus,** *PSL University, Chimie Paristech*
Unstable glasses of the Cultural Heritage: A collaboration between glass chemists and curators to tackle the issue of their ongoing degradation

14:30 › **G. Eggert,** *Stuttgart State Academy of Art and Design*
Drying the tears of 'weeping' glass

14:45 › **A. Kostka,** *Verrerie de Saint-Just*
The bicentennial of the Verrerie de Saint-Just: history and innovation in the art of mouth-blown glass

15:00 › **C. Bardin,** *Université Jean Monnet*
The glassworks of Portieux and the Atelier des Arts de Portieux (1982-1986). A creative utopia serving industrial renaissance

15:15 › **F. Colangeli,** *UCL, Institute of Archaeology*
Glass recycling from Antiquity to the early Middle Ages: The case of Tusculum (Italy)

TUESDAY 14th APRIL - PM

SAINT CLAIR 3

SIMULATION, MODELING, MACHINE LEARNING - 3

Session Chair: Alfonse PEDONE

14:00 › **C. Rountree,** *Université Paris-Saclay, CNRS, CEA Saclay*
Molecular Dynamics simulations of sodium borosilicate glasses to open access datasets

14:15 › **G. Molnar,** *Institut National des Sciences Appliquées de Lyon, Université de Lyon, CNRS*
Atomic scale inspired model for shear banding in silicate glasses

14:30 › **B. Hehlen,** *University Montpellier, CNRS*
Amorphous-amorphous transitions in compressed glasses

14:45 › **K. Attou,** *Université de Rennes, CNRS*
Nanostructuration of sillicate glasses using water: a multiscale simulation investigation

15:00 › **Z. Zhang,** *University of Montpellier*
Symmetry transitions beyond the nanoscale in pressurized silica glass

SAINT CLAIR 4

GLASS A SUSTAINABLE MATERIAL - 1

Session Chair: Sophie SCHULLER, Ashutosh GOEL

14:00 › **Invited: K. Xu,** *Wuhan University of Technology*
Research and development of nuclear waste vitrification in China

14:30 › **C. Véronneau,** *VEOLIA Nuclear Solutions*
In-situ vitrification of contaminated soils using Geomelt® ISV™ process: Latest results of the SOLVERIS project

14:45 › **A. Chakrabarti,** *Wuhan University of Technology*
A comparative study on immobilization of ERV2 chloride salt simulant in ceramics, glass and glass-ceramic waste forms

15:00 › **T. Pitarch,** *CEA Marcoule*
Partially crystallized glass melts: impact of crystallization on rheology

15:15 › **M. Hunault,** *Synchrotron SOLEIL*
Reduced uranium solubility in alkali borate matrix: a synchrotron x-ray investigation

TUESDAY 14th APRIL - PM

TUESDAY 14th APRIL - PM

14:00 – 15:30 › PARALLEL SESSIONS 4

	LUMIERE	ROSERAIE 1&2	SAINT CLAIR 1	SAINT CLAIR 2	SAINT CLAIR 3	SAINT CLAIR 4
	BASIC GLASS SCIENCE – 4	GLASS SURFACE & COATING – 4	OPTICAL PROPERTIES AND PHOTONICS – 1	GLASS & HUMANITY – 4	GLASS TO CRYSTAL - 1	A SUSTAINABLE MATERIAL - 2
16:00 – 16:15	S. Furham	Y.G. Choi	L. Hu	J. Bonnet	Y. Takahashi	J. McCloy
16:15 – 16:30	A. Berthelot			L. Galoisy		
16:30 – 16:45	T. Yano	G. Agnello	O. McGann	D. Gimeno-Torrente	M.J. Pascual	S. Peuget
16:45 – 17:00	P. Faceica	F. Bayer	J. Zou	E. Langagne	P.-L. Savary	S. Gin
17:00 – 17:15	E. Burov	K.M. Weitzel	A. Maillard	D. Gimeno-Torrente	K. Thieme	H. Arena
17:15 – 17:30	B. Kuzu	J. Banerjee	M. Cavillon	T. Caroff	L. Ueberricke	Y. Morizet
17:30 – 17:45	V. Kerling	L. Xiaosong	A. Raj		E. Bellini Ferreira	E. Bernardo
17:45 – 18:00	M. Richet	H. Zixian	N. Shchedrina		J.-R. Declere	P. Knast
18:00 – 18:15	G.K. Warden	O. Gedeon	M. Metais		J. Djordjevic-Reiß	

TUESDAY 14th APRIL - PM

LUMIERE

BASIC GLASS SCIENCE - 4

Session Chair: Doris MÖNCKE

16:00 › **S. Fuhrmann,** *Technische Universität Bergakademie Freiberg*
Combined X-ray Raman scattering, X-ray emission spectroscopy, and optical Raman spectroscopy for in-situ studies of glasses under extreme conditions at ESRF-ID20

16:15 › **A. Berthelot,** *Université Claude Bernard Lyon 1, CNRS*
Probing densification mechanisms in indented silica using Brillouin spectroscopy

16:30 › **T. Yano,** *Institute of Science Tokyo*
Glass formulation of CaO/SrO-La_2O_3-Al_2O_3-ZrO_2 system using in-flight melting method

16:45 › **T. Faceira,** *Université Claude Bernard Lyon 1, CNRS*
Structural study of nanoparticles under pressure: toward a new amorphous phase

17:00 › **E. Burov,** *Saint Gobain Recherche, CNRS*
Impact of boron on high temperature multicomponent diffusion in alumino-soda-lime silicates

17:15 › **B. Kuzu,** *Sisecam*
Effect of MgO Content on the Dissolution Behavior of Soda Lime Silicate (SLS) Glasses in Alkaline Conditions

17:30 › **V. Kerling,** *Friedrich-Alexander-University Erlangen-Nuremberg*
Enhancing biobate solubility in aluminosilicate glasses through network former addition

17:45 › **M. Richet,** *Laboratoire des Matériaux et Procédés Actifs*
Effect of irradiation and thermal treatment on the stored energy, physical properties and structure of ISG glass

18:00 › **G. K. Warden,** *Norwegian University of Science and Technology*
Influence of doping on the properties of fused quartz glass

ROSERAIE 1&2

GLASS SURFACE AND COATING - 4

Session Chair: Alex MARTUCCI, Tuncay TURUTOGLU

16:00 › **Invited: Y. G. Choi,** *Korea Aerospace University*
In-situ observation of macrodeformation of sheet glass induced by ion exchange

16:30 › **G. Agnello,** *Corning*
Impact of ion exchange (IOX) alteration layer properties on glass surface contact electrification

16:45 › **F. Bayer,** *University of Bayreuth*
Experimental investigation of combined chemical strengthening and flame treatment for post-processing of soda lime glass

17:00 › **K.-M. Weitzel,** *Philipps Universität Marburg*
Chemical replacement zones in ion exchange - from concentration depth profiles to hardness

17:15 › **J. Banerjee,** *Corning*
Invisible damage on glass surfaces: Assessment of surface/subsurface modification and durability

17:30 › **L. Xiaosong,** *Southwest University of Science and Technology*
Effect of environment temperature on mechanochemical wear of soda lime silicate glass surface

17:45 › **H. Zixian,** *Southwest University of Science and Technology*
Effect of electrolyte cations mechanochemical wear of soda lime silicate glass in aqueous solution

18:00 › **O. Gedeon,** *Institute of Physics of the Czech Academy of Sciences*
Non-bridging oxygen in leached and electron-irradiated barium glass

TUESDAY 14th APRIL - PM

SAINT CLAIR 1

OPTICAL PROPERTIES AND PHOTONICS - 1

Session Chair: Anna LUKOWIAK

16:00 › **Invited: L. Hu,** *Shanghai Institute of Optics and Fine Mechanics*
Disclosing mechanism of the effect of short-range and medium-range structures on spectroscopic properties of active ions in silica-based glasses

16:30 › **O. McGann,** *Glass Technology Services Ltd.*
Development of radiation hard optical and photonic glasses

16:45 › **J. Zou,** *Université Paris-Saclay*
Chiral optical properties induced by elliptically polarized beam in silica via femtosecond laser writing

17:00 › **A. Maillard,** *Université de Bordeaux*
Thermo-electrical polarization of an ionic silicate glass surface assisted by plasma: properties and application to liquid-crystals molecular alignment

17:15 › **M. Cavillon,** *Université Paris-Saclay*
Fs-laser induced nanostructures for high temperature optical sensing - Challenging the limits of glass

17:30 › **A. Raj,** *Université Jean Monnet*
Real time radiation induced attenuation of commercial flat FD-7 RPL irradiated with 2.5 MeV electron beam at high doses

17:45 › **N. Shchedrina,** *Université Paris-Saclay*
Femtosecond laser writing of birefringent optical modifications in nanoporous glass versus fused silica

18:00 › **M. Metais,** *Université Bourgogne Europe, CNRS*
Multi-material optical components for infrared

SAINT CLAIR 2

Glass and Humanity - 4

Session Chair: Nadine SCHIBILLE, Cécile BRETONNET

16:00 › **J. Bonet,** *J.M.Bonet vitralls S.L.*
Fourteenth- and fifteenth-century stained glass in Barcelona: Cathedral; Reial Monestir de Santa Maria de Pedralbes; and Santa Maria del Mar

16:15 › **L. Galoisy,** *Sorbonne Université, CNRS, Museum National d'Histoire Naturelle*
Stained glasses : from color to history

16:30 › **D. Gimeno-Torrente,** *Universitat de Barcelona*
Archaeometric study of medieval glass coming a lost stained glass window from San Giacomo Maggiore church, Bologna (Italy)

16:45 › **E. Langagne,** *Sorbonne Université, CNRS, Museum National d'Histoire Naturelle*
Ashes to art: The glassmaking traditions of Königsfelden's medieval windows

17:00 › **D. Gimeno-Torrente,** *Universitat de Barcelona*
Chemical study of two coats of arms stained glass windows in the Chapel of St. Pietro Martire (early 15th century) of the Basilica of San Petronio, Bologna, Italy

17:15 › **T. Caroff,** *Manufacture Vincent Petit*
Studying the old to create the new: the example of the stained glass windows of Saint-Etienne-Du-Mont (17th century)

TUESDAY 14th APRIL - PM

SAINT CLAIR 3

GLASS TO CRYSTAL - 1

Session Chair: Edgar ZANOTTO

16:00 › **Invited: Y. Takahashi,** *Tohoku University*
Silicate glass-ceramics toward photonic application: From precursor design to fiber-type device

16:30 › **M. J. Pascual,** *Instituto de Cerámica y Vidrio (ICV-CSIC)*
Optical fiber thermometers based on Yb/Er codoped oxyfluoride glass-ceramics

16:45 › **P.-L. Savary,** *Université d'Orléans, CNRS*
Synthesis of highly non-stoichiometric europium aluminate garnets by glass crystallisation

17:00 › **K. Thieme,** *Fraunhofer Institute for Microstructure of Materials and Systems*
MgO-Al_2O_3-SiO_2 glass ceramics with superior mechanical performance – Synthesis without the addition of nucleating agents

17:15 › **L. Ueberricke,** *NEG*
Crystal growth and melting observed by high-temperature optical microscopy - Evolution of crystal morphology and thermodynamic modeling

17:30 › **E. Bellini Ferreira,** *University of São Paulo*
An effective shape factor of glass particles from the heterogeneous crystallization kinetics characterized by DSC

17:45 › **J.-R. Duclere,** *University of Limoges*
Characterizations and optical properties of new highly transparent glass-ceramics elaborated in the TeO_2-La_2O_3-In_2O_3 ternary system

18:00 › **J. Djordjevic-Reiß,** *Schott AG*
Transparent keatite glass-ceramic for chemical strengthening

SAINT CLAIR 4

GLASS A SUSTAINABLE MATERIAL - 2

Session Chair: Sophie SCHULLER, Ashutosh GOEL

16:00 › **Invited: J. McCloy,** *Washington State University*
Halides in glasses and melts – connecting immobilization, nuclear fuels, and optics

16:30 › **S. Peuget,** *Université de Montpellier, CEA Marcoule*
TANGRAM initiative : Toward an integrative Approach of Nuclear Glass alteration in a Reactive environment from MultiscAle Modelling

16:45 › **S. Gin,** *CEA Marcoule, Université de Montpellier*
A multi parameter approach for predicting initial dissolution rate of silicate glasses

17:00 › **H. Aréna,** *Université de Montpellier, CEA Marcoule*
Initial alteration rate of glasses irradiated with various particles beams

17:15 › **Y. Morizet,** *Université de Nantes, CNRS*
The role of bismuth on the incorporation of iodine in aluminoborosilicate glasses synthesized under high-pressure: An XPS and XAS study

17:30 › **E. Bernardo,** *University of Padova*
Mild alkali activation of glass for sustainable and recyclable 'unfired' construction materials

17:45 › **P. Knast,** *Forglass Technology*
Decarbonization by reducing energy consumption using Forglass mixing electrodes® technology in standard and hybrid furnaces

WEDNESDAY 15th APRIL

TIMETABLE

LUMIERE

08:30 – 09:15 › **PLENARY LECTURE**

Session Chair: Frédéric SMEKTALA

Auditorium LUMIERE

Pierre LUCAS, *University of Arizona, USA*
Phase change materials from the liquid and glass point of view

09:30 – 10:30 › **PARALLEL SESSIONS 5**

BASIC GLASS SCIENCES - 5 – *LUMIERE*
GLASS A SUSTAINABLE MATERIAL - 3 – *ROSERAIE 1&2*
GLASS SURFACE AND COATING - 5 – *SAINT CLAIR 2*
SIMULATION, MODELING, MACHINE LEARNING - 4 – *SAINT CLAIR 3*
GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 3 – *SAINT CLAIR 4*

10:30 - 11:00 › **COFFEE BREAK**
FORUM 1&2

11:00 – 12:45 › **PARALLEL SESSIONS 6**

BASIC GLASS SCIENCES - 6 – *LUMIERE*
GLASS A SUSTAINABLE MATERIAL - 4 – *ROSERAIE 1&2*
OPTICAL PROPERTIES AND PHOTONICS - 2 – *SAINT CLAIR 1*
GLASS SURFACE AND COATING - 6 – *SAINT CLAIR 2*
SIMULATION, MODELING, MACHINE LEARNING - 5 – *SAINT CLAIR 3*
GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 4 – *SAINT CLAIR 4*

12:45 - 14:00 › **LUNCH BOX**

14:00 - 18:30 › **FREE AFTERNOON OR EXCURSIONS**

WEDNESDAY 15th APRIL

09:30 – 12:45 › PARALLEL SESSIONS 5&6

	LUMIERE	ROSERAIE 1&2	SAINT CLAIR 1	SAINT CLAIR 2	SAINT CLAIR 3	SAINT CLAIR 4
	BASIC GLASS SCIENCE – 5	**GLASS A SUSTAINABLE MATERIAL - 3**		**GLASS SURFACE & COATING - 5**	**SIMULATION, MODELING, MACHINE LEARNING - 4**	**GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 3**
9:30 – 9:45	M. Ono	C. Roos		G. Cagnoli	D. Cassar	S. Sen
9:45 – 10:00						
10:00 – 10:15	G. Macrelli	D. Backhouse		C. Bouafif	M. Bertani	S. Wilke
10:15 – 10:30	Z. Jin	C. Holcroft		H. Mohsin	M. Wahab	A. Barosiewicz
COFFEE BREAK						
	BASIC GLASS SCIENCES – 6	**GLASS A SUSTAINABLE MATERIAL – 4**	**OPTICAL PROPERTIES AND PHOTONICS – 2**	**GLASS SURFACE & COATING – 6**	**SIMULATION, MODELING, MACHINE LEARNING – 5**	**GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 4**
11:00 – 11:15	G. Calas	A. Ruivo	A. De Camargo	M. Zhang	A. Gaddam	K. Niss
11:15 – 11:30	J. Bussey	S. Sander	J. Ballato	J.-B. Bringuier	E. Ekmen	
11:30 – 11:45	A. Duval	D. Launai	A. Muneer	S. Becerra	J. P. Rino	O. Gulbiten
11:45 – 12:00	T. Caroff	A. Pfohl	C. Liu	F. Inoubli	J. Hicham	J. Tamarit
12:00 – 12:15	S. Aqdim	L. Albino	D. Gelija	M. Magnozzi	M. Benassi	Y. Wang
12:15 – 12:30	Y. Saijo	D. Faza Franco	G. Capelin	P. Steyer	L.-M. Poitras	J. Qiao
12:30 – 12:45	D. Möncke	S. Singla	L. Rougier	H. Erler	K. Konstantinou	N. Delpouve

WEDNESDAY 15th APRIL

LUMIERE

BASIC GLASS SCIENCE - 5

Session Chair: Katia BUROV

9:30 › **Invited: M. Ono,** *Tohoku University*
Effective thermal strengthening of glass by enhanced configurational entropy at its supercooled state

10:00 › **G. Macrelli,** *SiMathModels*
Kinetics issues of ion exchange in silicate glasses

10:15 › **Z. Jin,** *Friedrich Schiller University Jena*
From windows to bioactive glass: structure, viscosity and crystallization of soda lime silicate glasses

10:30 - 11:00 › **COFFEE BREAK**

LUMIERE

BASIC GLASS SCIENCE - 6

Session Chair: Dominique de LIGNY

11:00 › **G. Calas,** *Sorbonne Université, CNRS, Museum National d'Histoire Naturelle*
Structure-property relationships of transition elements in glasses

11:15 › **J. Bussey,** *Washington State University*
Speciation of uranium in simple oxide glasses

11:30 › **A. Duval,** *Friedrich-Schiller-Universität Jena*
Facile and quantitative determination of glass redox state

11:45 › **T. Caroff,** *Université de Technologie de Troyes, Manufacture Vincent Petit*
In search of an iron-manganese link: a multispectroscopic study of the color of silicate glasses

12:00 › **S. Aqdim,** *IPGP, Université de Paris*
Structure and viscosity of sulfur-bearing silicate glasses: Influence of sulfur speciation and composition

12:15 › **Y. Saijo,** *AGC*
Study of X-ray induced damage on sulfur in glass during X-ray analyses

12:30 › **D. Möncke,** *Alfred University*
Stabilizing unusual high oxidation states of transition metals in glasses

ROSERAIE 1&2

GLASS A SUSTAINABLE MATERIAL – 3

Session Chair: Enrico BERNARDO, Elise REGNIER

09:30 › **Invited: C. Roos**, *RWTH Aachen University*
Why sustainable glass chemistry and sustainable melting concepts cannot be uncoupled

10 :00 › **D. Backhouse**, *Glass Futures*
New raw materials opportunities: Overview and anorthosite case study

10:15 › **C. Holcroft**, *Glass Technology Services*
Secondary raw material use in glass manufacturing

10 :30 – 11 :00 › **COFFEE BREAK**

ROSERAIE 1&2

GLASS A SUSTAINABLE MATERIAL – 4

Session Chair: Enrico BERNARDO, Elise REGNIER

11:00 › **A. Ruivo,** *NOVA School of Science and Technology*
Sustainable glass for art and craft

11:15 › **S. Sander,** *TU Bergakademie Freiberg*
Applying the concept of glass ceramics: Influencing factors for target element enrichment during crystallization in waste stream admixtures

11:30 › **D. Launai,** *Université de Limoges*
Valorization of mineral wool waste: properties of a new alkali-activated geomaterial to facilitate recycling

11:45 › **A. Pfohl,** *TU Bergakademie Freiberg*
Valorization of lead slag for glass fibers – A zero waste approach

12:00 › **L. Albino,** *University of São Paulo*
Luminescent rare-earth garnet microcrystals synthesized from electronic waste by controlled cooling of melted glass

12:15 › **D. Faza Franco,** *São Paulo State University*
Rare earth-doped borogermanate glasses from electronic waste for advanced magneto-optical applications

12:30 › **S. Singla,** *Chandigarh University*
Agro-waste deriven crack resistant glass for smart display devices

WEDNESDAY 15th APRIL

10 :30 – 11 :00 › **COFFEE BREAK**

SAINT CLAIR 1

OPTICAL PROPERTIES AND PHOTONICS – 2

Session Chair: Laeticia PETIT

11:00 › **A. De Camargo,** *Federal Institute for Materials Research and Testing (BAM)*
Phosphor-in-glass (PiG) composites for white light emission and persistent luminescence

11:15 › **J. Ballato,** *Clemson University*
The glass science of optical nonlinearities

11:30 › **A. Muneer,** *Tampere University*
Tb^{3+} doped phosphate glasses and glass-ceramics

11:45 › **C. Liu,** *Wuhan University of Technology*
Phase-separation modulated dual-band PL of $CsPbBr_3$ perovskite nanocrystals in glasses

12:00 › **D. Gelija,** *Kongju National University*
Green and NIR emissions of Yb^{3+}-doped $CsPbBr_3$ perovskite nanocrystals embedded in borosilicate glass for anti-counterfeiting applications

12:15 › **G. Capelin,** *University of São Paulo*
Exploring ZIF-62/Lanthanide-MOFs composites: Structure and optical properties

12:30 › **L. Rougier,** *Université de Rennes*
Fabrication of phosphate glass/metal fibers for photoelectrochemical sensing

SAINT CLAIR 2

GLASS SURFACE AND COATING - 5

Session Chair: Gianpietro CAGNOLLI, Valérie MARTINEZ

09:30 › **Invited: G. Cagnoli**, *Università di Padova*
Glass and amorphous dielectrics at the heart of gravitational waves detection

10:00 › **C. Bouafif**, *Université de Lyon, Institut National des Sciences Appliquées*
Study of point scatterers in highly reflective coatings for gravitational wave interferometer mirrors

10:15 › **H. Mohsin**, *Ghulam Ishaq Khan Institute of Engineering Sciences & Technology*
Processing & thermal behavior of alkali silicate solutions, xerogels & coatings

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 2

GLASS SURFACE AND COATING - 6

Session Chair: Gianpietro CAGNOLLI, Valérie MARTINEZ

11:00 › **M. Zhang,** *Wuhan University of Technology*
Sol-gel derived anti-reflective coating on photovoltaic glass synergistical photocatalysis and photoelectric conversion enhancement

11:15 › **J.-B. Bringuier,** *Saint Gobain, CNRS*
Mechanical properties and local structure evolution in the sol-gel thin-films during high temperature heat treatment

11:30 › **S. Becerra,** Pennsylvania State University
PMMA-silica nanoparticle composite coatings for increased strength of soda lime silicate glass

11:45 › **F. Inoubli,** *CEA, Ecole Polytechnique*
Investigation of 2.5 MeV electron radiation-induced modifications in silica thin films

12:00 › **M. Magnozzi,** *Università di Genova*
Thermal annealing of GeO_2-based coatings: glass transition and implications for coatings in high-performance Bragg mirrors

12:15 › **P. Steyer,** *Université Jean Monnet*
Ultrashort laser-treated PVD ZrCuAg-based thin film metallic glasses, towards bactericid advanced surfaces

12:30 › **H. Erler,** *Technische Universität Bergakademie Freiberg*
Laser welding of glass as a key technology for safe and cost-effective storage solutions

WEDNESDAY 15th APRIL

SAINT CLAIR 3

SIMULATION, MODELING, MACHINE LEARNING - 4

Session Chair: Simona ISPAS

09:30 › **Invited: D. Cassar**, *Brazilian Biorenewables National Laboratory (CNPEM)*
Better together? Multitask versus singletask learning for modeling glass properties and tackling glass forming ability prediction

10:00 › **M. Bertani**, *University of Modena and Reggio Emilia*
From structure to conductivity: Probing Na diffusion in amorphous solid electrolytes with ML potentials

10:15 › **M. Wahab**, *Technische Universität Bergakademie Freiberg*
Atomistic mechanisms of irreversible transformations in silica: From shock-induced densification to defect-driven amorphization

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 3

SIMULATION, MODELING, MACHINE LEARNING - 5

Session Chair: Stephen ELLIOTT

11:00 › **A. Gaddam,** *CICECO – Aveiro Institute of Materials*
Bimodal or continuous? Unifying the magnesium coordination model in diopside glass using ab initio Molecular Dynamics

11:15 › **E. Ekmen,** *Sisecam*
A combined experimental and computational investigation to understand the effect of MgO on the structure-property relationships in soda lime silica glass

11:30 › **J. P. Rino,** *Universidade Federal de Sao Carlos*
Modeling the structural and vibrational properties of $MgSiO_3$ by MD simulations

11:45 › **J. Hicham,** *Masdar City, Abu Dhabi*
Elastic properties of sodium silicate glasses: Insights from Brillouin light scattering, classical MD, and XGBoost prediction

12:00 › **M. Benassi,** *Università degli Studi di Modena e Reggio Emilia*
Machine learning potentials for amorphous solid electrolytes in sodium all-solid-state batteries: investigating the mixed glass former effect

12:15 › **L. M. Poitras,** *Sorbonne Université, CNRS*
Establishment of generalized empirical force fields for sulfide glasses and crystals used as superionic electrolytes in all-solid-state batteries

12:30 › **K. Konstantinou,** *University of Turku*
Tuning the electronic properties of chalcogenide glasses with non-equilibrium doping: a pathway to carrier-type reversal

SAINT CLAIR 4

GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 3

Session Chair: Beatrice RUTA

09:30 › **Invited: S. Sen**, *University of California*
Dynamical heterogeneity in inorganic network liquids: Temperature and fragility dependence

10:00 › **S. Wilke**, *Materials Development, Inc, Advanced Photon Source, Argonne National Laboratory*
Network connectedness in non-Zachariasen oxide glasses

10:15 ›**A. Bartosiewicz**, *Wrocław University of Science and Technolog*
From two-phase to porous: Surface and electrical characteristics of sodium borosilicate glasses

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 4

GLASS TRANSITION, RELAXATION, GLASS DYNAMICS - 4

Session Chair: Christine MARTINET

11:00 › **Invited: K. Niss,** *Roskilde University*
Isomorph theory as a framework for understanding glass formation: Insights from high-pressure experiments and simulations

11:30 › **O. Gulbiten,** *Corning*
Fragility dependence of relaxation dynamics in silicate glasses near the glass transition

11:45 › **J. Tamarit,** *Universitat Politècnica de Catalunya*
Relaxation dynamics in anisotropic orientional glass-formers of planar ring molecules

12:00 › **Y. Wang,** *Chinese Academy of Sciences*
Linear scaling between excess modes and structural disorder in metallic glasses

12:15 › **J. Qiao,** *Northwestern Polytechnical University*
Probing the microstructural heterogeneity of metallic glass: Universal understanding of DMA, stress relaxation and creep

12:30 › **N. Delpouve,** *Université Paris-Est Créteil Val-de-Marne, CNRS*
Local scale probing of the relaxation mechanisms in a metallic glass-former by calorimetric, mechanic, and structural investigations

THURSDAY 16th APRIL - AM

TIMETABLE

LUMIERE

08:30 – 09:15 › **PLENARY LECTURE**

Session Chair: Beatrice RUTA

Auditorium LUMIERE

Thibault CHARPENTIER, *CEA NIMBE*
Designing structural disorder in oxide glasses from NMR-driven reverse monte carlo

09:30 – 10:30 › **PARALLEL SESSIONS 7**

BASIC GLASS SCIENCES - 7 – *LUMIERE*
CRYSTAL TO GLASS - 2 – *ROSERAIE 1&2*
OPTICAL PROPERTIES AND PHOTONICS - 3 – *SAINT CLAIR 1*
ADVANCED MANUFACTURING PROCESSES - 4 – *SAINT CLAIR 2*
GLASS A SUSTAINABLE MATERIAL - 5 – *SAINT CLAIR 3*
GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS - 1 – *SAINT CLAIR 4*

10:30 - 11:00 › **COFFEE BREAK**
FORUM 1&2

11:00 – 12:45 › **PARALLEL SESSIONS 8**

BASIC GLASS SCIENCES - 8 – *LUMIERE*
CRYSTAL TO GLASS - 3 – *ROSERAIE 1&2*
OPTICAL PROPERTIES AND PHOTONICS - 4 – *SAINT CLAIR 1*
ADVANCED MANUFACTURING PROCESSES - 5 – *SAINT CLAIR 2*
GLASS A SUSTAINABLE MATERIAL - 6 – *SAINT CLAIR 3*
SIMULATION, MODELING, MACHINE LEARNING - 6 – *SAINT CLAIR 4*

12:45 - 14:00 › **LUNCH**
FORUM 1&2

THURSDAY 16th APRIL - AM

09:30 – 12:45 › PARALLEL SESSIONS 7&8

	LUMIERE	ROSERAIE 1&2	SAINT CLAIR 1	SAINT CLAIR 2	SAINT CLAIR 3	SAINT CLAIR 4
	BASIC GLASS SCIENCE – 7	CRYSTAL TO GLASS - 2	OPTICAL PROPERTIES AND PHOTONICS – 3	ADVANCED MANUFACURING PROCESSES - 4	A SUSTAINABLE MATERIAL – 5	HEALTHCARE AND MEDICAL APPLICATIONS - 1
9:30 – 9:45	D. de Ligny	E. Zanotto	A. Lukowiak	D. Klock	J. Agullo	J. Jones
9:45 – 10:00					R. Voivenel	
10:00 – 10:15	O. Alderman	T. Yano	R. Weber	R. Ireson	M. Belancon	M. Belaabd
10:15 – 10:30	E.J. Pedersen	M. Gich	D. Manzani	J. Mueller	A. Taher	Siekkinen
COFFEE BREAK						
	BASIC GLASS SCIENCES – 8	CRYSTAL TO GLASS – 3	OPTICAL PROPERTIES AND PHOTONICS – 4	ADVANCED MANUFACURING PROCESSES – 5	A SUSTAINABLE MATERIAL – 6	SIMULATION, MODELING, MACHINE LEARNING - 6
11:00 – 11:15	Y. Wang	L.A. González	F. Désévédavy	A. Faber	J. König	A. Pedone
11:15 – 11:30	I. Cornu	E. Lecomte	R. S. Baltieri	K. Al Hamdan	D. Manzani	
11:30 – 11:45	L. Yadav	J. Steichert	M. Dussauze	I. Gross	T. Hu	Vassaux
11:45 – 12:00	A. Walczak	O. Dymshits	L. Marcondes	E. Roux	A. Gaborit	Janusz
12:00 – 12:15	R. Henry-Bauer	F. Martinez	A. Masuno	S. Franchitto	H. Zeng	Takahiro
12:15 – 12:30	J. Shin	P. Pizani	M. H. Ramírez Acosta	R. Conradt		Terakado
12:30 – 12:45	D. Isaias	X. Jia				

THURSDAY 16th APRIL - AM

LUMIERE

BASIC GLASS SCIENCE - 7

Session Chair: Yohei ONODERA

9:30 › **Invited: D. de Ligny,** *Friedrich-Alexander Universität*
Mixed network former effect in barium borosilicate glasses: structural and mechanical implications

10:00 › **O. Alderman,** *ISIS Neutron and Muon Source*
Structure of mixed valence copper sodium borate biocidal glasses from combined neutron and X-ray diffraction

10:15 › **E. J. Pedersen,** *Aalborg University*
Structure of hydrated borate glasses

10:30 - 11:00 › **COFFEE BREAK**

LUMIERE

BASIC GLASS SCIENCE - 8

Session Chair: Gustavo ROSALES-SOSA

11:00 › **Y. Wang,** *Wuhan University of Technology*
Mixed alkaline earth effect on the structure and dielectric properties of aluminoborosilicate glass

11:15 › **I. Cornu,** *CEA Marcoule*
Investigation of Mg substitution effects on International Simple Glasses structure and properties

11:30 › **L. Walczak,** *Université de Picardie Jules Verne, CNRS*
Mechanochemically synthesized Na_2S-based glasses as promising electrolytes for all-solid-state sodium batteries

11:45 › **A. Yadav,** *University of Delhi*
Structure property correlations in $(Ge_{33}As_{12}Se_{55})1\text{-}xAg_x$ chalcogenide glasses: Influence of network on ionic and optical behavior

12:00 › **R. Henry-Bauer,** *Université de Montpellier, CNRS*
Tailoring chalcogenide glasses for controlled surface potential via thermal poling

12:15 › **J. Shin,** *Korea Institute of Ceramic Engineering and Technology*
Influence of MgO addition on the structure and properties of Zinc phosphate Glasses

12:30 › **D. Isaias,** *Sorbonne Université, CNRS, Museum National d'Histoire Naturelle*
Understanding the varieties of obsidian: insight into the compositional and structural characteristics

ROSERAIE 1&2

GLASS TO CRYSTAL - 2

Session Chair: Jean-René DUCLERE, Laeticia PETIT

09:30 › **Invited: E. Zanotto**, *Federal University of São Carlos (CERTEV)*
Assessing glass forming ability from experimental, theoretical, MD and ML perspectives

10:00 › **T. Yano**, *Institute of Science Tokyo*
Effect of initial glass density on surface crystallization behavior

10:15 › **M. Gich**, *Universitat Autònoma de Barcelona Bellaterra*
Demixed rare earth silicate glasses as surfactants for controlling the growth of epsilon-Fe_2O_3 nanocrystals in silica

10:30 - 11:00 › **COFFEE BREAK**

ROSERAIE 1&2

GLASS TO CRYSTAL - 3

Session Chair: Ina MITRA, Michael PITCHER

11:00 › **L. A. González,** *Corning European Technology Center*
Crystal chemistry of stuffed derivatives of quartz with low thermal expansion

11:15 › **E. Lecomte,** *Eurokera*
Crystallization of Li_2O-Al_2O_3-SiO_2 glass-ceramics

11:30 › **J. Streichert,** *Clausthal University of Technology*
Precipitation kinetics of nucleating agents in LAS glass-ceramics by high temperature Raman spectroscopy

11:45 › **O. Dymshits,** *Ioffe Institute/S.I. Vavilov State Optical Institute*
Lithium aluminosilicate glass-ceramics with near zero thermal expansion nucleated by rare-earth orthoniobates

12:00 › **F. Martinez,** *Clausthal University of Technology*
Effect of SnO_2 and CeO_2 doping on the crystallisation kinetics of a lithium aluminosilicate glass

12:15 › **P. Pizani,** *Universidade Federal de São Carlos*
Vibrational anharmonicity as a probe of temperature-induced structural transformations of $PbO.SiO_2$ silicate glasses, super cooled liquids, crystals and liquids: Raman scattering and molecular dynamic simulations

12:30 › **X. Jia,** *Wuhan University of Technology*
Influence of rare earth oxides on the structure and properties of Li_2O-Al_2O_3-SiO_2-MgO glass ceramics

THURSDAY 16th APRIL - AM

SAINT CLAIR 1

OPTICAL PROPERTIES AND PHOTONICS - 3

Session Chair: Wilfried BLANC

09:30 › **Invited: A. Lukowiak**, *Institute of Low Temperature and Structure Research*
Photoluminescence in bioactive glasses

10:00 › **R. Weber**, *Materials Development, Inc., Argonne National Laboratory*
Rare earth titanate glasses for optical devices

10:15 › **D. Manzani**, *University of São Paulo*
Structure-property relationship and thermometric rerformance of RE^{3+}-doped high TeO_2 content glasses

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 1

OPTICAL PROPERTIES AND PHOTONICS - 4

Session Chair: Maxime CAVILLON

11:00 › **F. Désévédavy,** *Université Bourgogne Europe*
Chalcogenide and tellurite microsphere

11:15 › **R. S. Baltieri,** *BAM Federal Institute for Materials Research and Testing*
Optical performance in mechanically improved multicomponent oxide glasses

11:30 › **M. Dussauze,** *Université de Bordeaux, CNRS*
Managing efficient second-order optical nonlinearity in optical glasses by micro-poling methods

11:45 › **L. Marcondes,** *Université de Bordeaux, CNRS*
Controlled microstructuring of glass optical responses by electrothermal poling

12:00 › **A. Masuno,** *Kyoto University*
Physical and structural properties of La_2O_3-WO_3-MoO_3 glasses prepared by a levitation technique

12:15 › **M. H. Ramírez Acosta,** *Federal Institute for Materials Research and Testing (BAM)*
Effect of some oxidizing agents on the color of TiO_2-nucleated ZnO-Al_2O_3-SiO_2 glass-ceramics

SAINT CLAIR 2

ADVANCED MANUFACTURING PROCESSES - 4

Session Chair: Corinne PAYEN

09:30 › **Invited: D. Klock**, *Verallia*
AI optimization for forming equipment's - Productivity, failure and safety aspects

10:00 › **R. Ireson**, *Glass Futures*
Challenges and early successes of running a 30 tonnes per day pilot line

10:15 › **J. Mueller**, *Dürr CTS GmbH*
CO_2 savings in furnace heating and effects on downstream equipment

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 2

ADVANCED MANUFACTURING PROCESSES - 5

Session Chair: Corinne PAYEN

11:00 › **A. Faber,** *Glass Futures*
Simultaneous measurement of gaseous NaOH and SO_2 in industrial glass furnaces by means of an optical sensor

11:15 › **K. Al Hamdan,** *Technische Universität Bergakademie Freiberg*
Stabilization of color and batch layer during amber glass melting within all-electric furnaces (AEF)

11:30 › **I. Gross,** *Saint-Gobain Research Provence*
Optimizing high boosting furnaces: A modeling approach towards innovative solutions

11:45 › **E. Roux,** *OwensCorning*
Alternative fuels to improve sustainability in glass fiber manufacturing

12:00 › **S. Franchitto,** *HERAEUS*
Heraeus' innovative DPH alloys: Revolutionizing glass production with enhanced performance and sustainability

12:15 › **R. Conradt,** *uniglassAC GmbH*
The batch-to-melt conversion - batch chemistry, energetics and melting rate

THURSDAY 16th APRIL - AM

SAINT CLAIR 3

GLASS A SUSTAINABLE MATERIAL - 5

Session Chair: John McCLOY

09:30 › **J. Agullo**, *Univ Montpellier, CEA Marcoule*
Structure-property relationships in iron phosphate oxide glasses as cathode materials for lithium-ion batteries

09:15 › **R. Voivenel**, *Université de Lille*
Innovated self-healing glass seal composition for electrochemical cell

10:00 › **M. Belancon**, *Federal Technological University of Paraná*
The reuse of the cover glass to enhance solar energy sustainability in the Brazilian context

10:15 › **A. Taher**, *Université de Lille*
Porous glass functionalization for environmental applications

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 3

GLASS A SUSTAINABLE MATERIAL - 6

Session Chair: Julia AGULLO

11:00 › **J. König,** *Jožef Stefan Institute*
Modification of glass composition as a route to improve foamed glass properties

11:15 › **D. Manzani,** *University of São Paulo*
Phosphosilicate-based glass fertilizers with controlled nutrient release: A sustainable alternative to conventional fertilizers

11:30 › **T. Hu,** *Wuhan University of Technology*
Surface-enhanced Raman scattering performance and applications of Ag/Ag_3PO_4 composite SERS fiber probe

11:45 › **A. Gaborit,** *Autorié de Sûreté Nucléaire et de Radioprotection (ASNR)*
Investigation by EPR spectrosccopy of glass from smartphone touchscreen and screen protector for radiationdose assessment in case of radiological accident

12:00 › **H. Zeng,** *Wuhan University of Technology*
Trace heavy metal ions detection from β-cyclodextrin modified gold-core silver-shell nanoparticles on glass substrate

SAINT CLAIR 4

GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS - 1

Session Chair: Jeremy SOULIE

09:30 › **Invited: J. Jones**, *Imperial college London*
Bioglass and hybrids for ionic medicine

10:00 › **M. A. Belaabd**, *IPGP*
Mechanistic study of crystallization in alkali aluminosilicates: The role of Ti, Zr, and P_2O_5 as nucleating agents

10:15 ›**M. Siekkinen**, *Åbo Akademi University*
Experimental glass fibers for biomineralization and reinforcement of glass ionomer cement used in dental applications

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 4

SIMULATION, MODELING, MACHINE LEARNING - 6

Session Chair: Simona ISPAS

11:00 › **Invited: A. Pedone,** *University of Modena and Reggio Emilia*
Decoding medium-range order in sodium oxysulfide glasses: Dataset sensitivity of machine learning interatomic potentials

11:30 › **M. Vassaux,** *Université de Rennes, CNRS*
The Capriccio method as a versatile tool for quantifying the fracture properties of glassy materials under complex loading conditions with chemical specificity

11:45 › **C. Janusz,** *University of Camerino*
EXAFS-constrained Reverse Monte Carlo modeling of amorphous structures: the case of GeO_2 glass under compression

12:00 › **O. Takahiro,** *Chiba University*
Crystallization pathways of neutron-irradiated amorphous quartz by Molecular Dynamics simulation

12:15 › **N. Terakado,** *Tohoku University, Kyoto University*
Control of phase transition in buried $BaTiO_3$ microcrystals via ion-exchange-induced stress in glass: Experimental and finite element analysis

THURSDAY 16th APRIL - PM

TIMETABLE

14:00 – 15h00 › **POSTER SESSION**
FORUM 1&2

15 :00 – 16 :00 › **PARALLEL SESSIONS 9**

BASIC GLASS SCIENCES – 9 – *LUMIERE*
GLASS TO CRYSTAL – 4 – *ROSERAIE 1&2*
OPTICAL PROPERTIES AND PHOTONICS – 5 – *SAINT CLAIR 1*
ADVANCED MANUFACTURING PROCESSES - 6 – *SAINT CLAIR 2*
SIMULATION, MODELING, MACHINE LEARNING - 7 – *SAINT CLAIR 3*
GLASS FOR HEALTHCARE AND MEDICAL APPLICATIONS - 2– *SAINT CLAIR 4*

16 :00 – 16 :30 › **COFFEE BREAK**
FORUM 1&2

16 :30 – 17 :45 › **PARALLEL SESSIONS 10**

BASIC GLASS SCIENCES – 10 – *LUMIERE*
OPTICAL PROPERTIES AND PHOTONICS – 6 – *SAINT CLAIR 1*
ADVANCED MANUFACTURING PROCESSES - 7 – *SAINT CLAIR 2*
SIMULATION, MODELING, MACHINE LEARNING - 8 – *SAINT CLAIR 3*
GLASS FOR HEALTHCARE AND MEDICAL APPLICATIONS - 3 – *SAINT CLAIR 4*

THURSDAY 16th APRIL - PM

15:00 – 17:45 › PARALLEL SESSIONS 9&10

	LUMIERE	ROSERAIE 1&2	SAINT CLAIR 1	SAINT CLAIR 2	SAINT CLAIR 3	SAINT CLAIR 4
	BASIC GLASS SCIENCE – 9	CRYSTAL TO GLASS - 4	OPTICAL PROPERTIES AND PHOTONICS – 5	ADVANCED MANUFACURING PROCESSES - 6	SIMULATION, MODELING, MACHINE LEARNING – 7	HEALTH CARE AND MEDICAL APPLICATIONS - 2
15:00 – 15:15	T. Yano	L. Petit	J.Troles	W. Kuhn	V. Deringer	B. Lei
15:15 – 15:30	S. Sen		E. Ghezzi			
15:30 – 15:45	Dackane	L. He	S. Coudray	G. Herbouze	S. Elliott	M. Marchand
15:45 – 16:00	Chung	M. Nalin	F. Pellerin	S. Metchueng Kamdem	K. Umemoto	V. Sowjanya
COFFEE BREAK						
	BASIC GLASS SCIENCES – 10		OPTICAL PROPERTIES AND PHOTONICS – 6	ADVANCED MANUFACURING PROCESSES – 7	SIMULATION, MODELING, MACHINE LEARNING – 8	HEALTH CARE AND MEDICAL APPLICATIONS - 3
16:30 – 16:45	Akar		T. Larqué	F. Abbas	L.-M. Poitras	G. Lusvardi
16:45 – 17:00	Rodrigues		T. Meyneng	R. Pokorny	W. Li	F. Westhauser
17:00 – 17:15	Bratmüller		A.K. Abeyrathna Siriwardhana	P. G. Jensen	A. Familiari	S. Panighello
17:15 – 17:30	Waurischk		T. Guérineau	J. Klouzek	A. Puchalski	N. Ojha
17:30 – 17:45	De La Torre Perez		L. Hoff			

THURSDAY 16th APRIL - PM

LUMIERE

BASIC GLASS SCIENCE - 9

Session Chair: Rita CICCONI

15:00 › **T. Yano,** *Institute of Science Tokyo*
Vibration function of disk-type glass actuator based on ion-conductive phosphate glass

15:15 › **S. Sen,** *University of California*
Spatial distribution of modifier cations and tuning its effect on the ionic conductivity of network oxide glasses

15:30 › **C. Dackane,** *Université de Lille, CNRS*
Investigation of network connectivity in aluminophosphates glasses via NMR and Molecular Dynamics

15:45 › **J. Chung,** *Korea Institute of Ceramic Engineering and Technology*
Structure-property relationships in Ag_2O-doped Zinc aluminophosphate glasses: Impact of alkaline earth ions on silver reduction

16:00 - 16:30 › **COFFEE BREAK**

LUMIERE

BASIC GLASS SCIENCE - 10

Session Chair: Rita CICCONI

16:30 › **T. Akar,** *Sisecam*
Structural role of MgO in soda lime silicate glasses: Compositional variations and spectroscopic insights

16:45 › **A. C. M. Rodrigues,** *Federal University of São Carlos*
Ionic conductivity enhancement in Li_2O-P_2O_5 glasses by $AlCl_3$ addition

17:00 › **H. Bradtmüller,** *Universidade de São Paulo (IFSC/USP)*
Structural role of Nb_2O_5 in oxide glasses: From network integration to invert glass formation

17:15 › **T. Waurischk,** *Federal Institute for Materials Research and Testing (BAM)*
Structure and properties of peraluminous sodium aluminoborosilicate glasses

17:30 › **A. De La Torre Perez,** *Université de Bordeaux, CNRS*
Control of surface electrical potentials on Ge-Sb-S glasses by thermal poling

ROSERAIE 1&2

GLASS TO CRYSTAL - 4

Session Chair: Maria PASCUAL, Yoshihiro TAKAHASHI

15:00 › **Invited: L. Petit,** *Tampere University*
From glasses to glass-ceramics / Composites: Designing photonic materials with tailored optical properties

15:30 › **L. He,** *Université d'Orléans, CNRS*
Synthesis of compositionally-complex $BaREGa_3O_7$ melilites with small rare-earths (RE = Eu-Dy) by glass crystallization method

15:45 › **M. Nalin,** *São Paulo State University*
Multi-functional single-crystal rare earth garnets prepared by the supersaturated methodology

THURSDAY 16th APRIL - PM

SAINT CLAIR 1

OPTICAL PROPERTIES AND PHOTONICS - 5

Session Chair: Marc DUSSAUZE

15:00 › **J. Troles,** *Université Rennes*
Low-loss chalcogenide glasses and fibers made by additive manufacturing

15:15 › **E. Ghezzi,** *São Paulo State University*
Synthesis and characterization of glasses and fibers for ultra-sensitive magneto-optical sensors

15:30 › **S. Coudray,** *Collège de France*
Elaboration of an electrode on a chalcogenide glass fiber for operando monitoring of a battery by infrared spectroscopy

15:45 › **F. Pellerin,** *Université Côte d'Azur*
Modification of the properties of dielectric nanoparticles contained in an optical fiber using a femtosecond laser

16:00 - 16:30 › **COFFEE BREAK**

SAINT CLAIR 1

OPTICAL PROPERTIES AND PHOTONICS - 6

Session Chair: John BALLATO

16:30 › **T. Larqué,** *Université de Limoges, CNRS*
A fresh look to the correlation of nonlinear spatiotemporal light shaping and local structure of silica fibers

16:45 › **T. Meyneng,** *Laval University*
Fabrication of complex bismuth-doped silicate fiber using an all-vapor deposition method

17:00 › **A. K. Abeyrathna Siriwardhana,** *University Bourgogne Europe, CNRS*
Thermo-optic response of chalcogenide glasses for fibered infrared devices

17:15 › **T. Guérineau,** *Université Laval*
Transition-metal-modified gallate glass fibers for power-scalable mid-infrared supercontinuum generation

17:30 › **L. Hoff,** *Université Sciences et Technologies - Bordeaux 1*
Multi-functional optical fibers based infrared spectroscopic bio sensing

SAINT CLAIR 2

ADVANCED MANUFACTURING PROCESSES - 6

Session Chair: Michel GAUBIL

15:00 › **Invited: W. Kuhn,** *Fives Glass*
Why has your float- or PV-glass tank trouble in fining low iron glass?

15:30 › **G. Herbouze,** *Saint Gobain Research*
How numerical simulation can reveal the underestimated criticality of refractory block thermo-mechanical behavior on flass furnace lifetime

15:45 › **S. Metchueng Kamdem,** *Fives Stein*
How to optimize your flue-gas energy-recovery cascade in hybrid tanks?

16:00 - 16:30 › **COFFEE BREAK**

SAINT CLAIR 2

ADVANCED MANUFACTURING PROCESSES - 7

Session Chair: Michel GAUBIL

16:30 › **F. Abbas,** *Technische Universität Ilmenau*
Effect of process parameters on the production of water glass from recycled silica for CO_2 laser-assisted additive manufacturing

16:45 › **R. Pokorny,** *University of Chemistry and Technology Prague*
Radiative heat transfer in nuclear waste glasses and melts: Measurements, modeling, and key compositional effects

17:00 › **P. G. Jensen,** *Aalborg University*
Impact of melting conditions on viscous behavior and crystallization tendencies in iron-bearing aluminum silicate glasses

17:15 › **J. Klouzek,** *University of Chemistry and Technology (UCT Prague)*
Experimental and mathematical methods for analysis of dynamic corrosion of refractory materials

THURSDAY 16th APRIL - PM

SAINT CLAIR 3

SIMULATION, MODELING, MACHINE LEARNING - 7

Session Chair: Alastair CORMACK

15:00 › **Invited: V. Deringer,** *University of Oxford*
Machine-learning-driven advances in modelling amorphous materials

15:30 › **S. Elliott,** *Cambridge University*
The origin of over-coordinated defects in chalcogenide glasses

15:45 › **K. Umemoto,** *NEG*
First principles study of crystalline phases of glass network-forming elements

16:00 - 16:30 › **COFFEE BREAK**

SAINT CLAIR 3

SIMULATION, MODELING, MACHINE LEARNING - 8

Session Chair: Cindy ROUNTREE

16:30 › **L.-M. Poitras,** *Sorbonne Université, CNRS*
Insights into the structure-property relationships and conduction mechanisms in glassy sulfide electrolytes

16:45 › **W. Li,** *Wuhan University of Science and Technology*
Multiscale computational simulation of quantum dots doped glasses

17:00 › **A. Familiari,** *Université de Strasbourg, CNRS*
Atomic-scale structure, V-coordination disorder and Na-ion transport pathways in Na-V-P-O glasses for cathode materials

17:15 › **A. Puchalski,** *Warsaw University of Technology*
Vitrification and structural analysis of vanadate glasses in MD simulations using ReaxFF potential

SAINT CLAIR 4

GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS - 2

Session Chair: Julian JONES

15:00 › **Invited: B. Lei,** *Xián Jiaotong University*
Multifunctional bioactive nanoglasses for hemostasis and soft tissue regeneration

15:30 › **M. Marchand,** *Université de Rennes*
From egg to bone: biological relevance of the “shell/membrane”, bioactive glasses and PHA trio for the additive manufacturing of scaffolds in facial cleft regenerative medicine

15:45 › **V. Sowjanya,** *National Institute of Technology Warangal*
In vitro bioactivity and antibacterial potential of selenium-doped mesoporous bioactive glass particles for bone tissue regeneration applications

16:00 - 16:30 › **COFFEE BREAK**

SAINT CLAIR 4

GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS - 3

Session Chair: Enrica VERNE

16:30 › **G. Lusvardi,** *University of Modena and Reggio Emilia*
Dual ion doped cerium-based mesoporous bioactive glasses as multifunctional platforms for advanced therapeutic applications

16:45 › **F. Westhauser,** *Klinik für Orthopädie, Universität Regensburg*
From bone bonding to ionic medicine: The evolution and clinical impact of bioactive glass

17:00 › **S. Panighello,** *Stevanato Group*
The role of coloring agents on amber borosilicate glass for pharmaceutical application

17:15 › **N. Ojha,** *Tampere University*
In-vitro study of biophotonic fibers with red upconversion for biophotonic application

FRIDAY 17th APRIL

TIMETABLE

08:45 – 09:15 › **PRIZE LECTURE**

GOTTARDI PRIZE – *ROSERAIE 1&2*
USTV PhD AWARD – *SAINT CLAIR 2*
N.F. MOTT AWARD – *SAINT CLAIR 3*

09:30 – 10:30 › **PARALLEL SESSIONS 11**

GLASS A SUSTAINABLE MATERIAL - 6 – *ROSERAIE 1&2*
GLASS TO CRYSTAL - 5 – *SAINT CLAIR 1*
OPTICAL PROPERTIES AND PHOTONICS - 7 – *SAINT CLAIR 2*
BASIC GLASS SCIENCES - 11 – *SAINT CLAIR 3*
GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS - 4 – *SAINT CLAIR 4*

10:30 - 11:00 › **COFFEE BREAK**
FORUM 1&2

11:00 – 12:45 › **PARALLEL SESSIONS 12**

GLASS A SUSTAINABLE MATERIAL - 7 – *ROSERAIE 1&2*
GLASS TO CRYSTAL – 6 – *SAINT CLAIR 1*
OPTICAL PROPERTIES AND PHOTONICS - 8 – *SAINT CLAIR 2*
BASIC GLASS SCIENCES - 12 – *SAINT CLAIR 3*
GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS – 5 – *SAINT CLAIR 4*

12:45 - 13:00 › **CLOSING CEREMONY**
SAINT CLAIR 3

FRIDAY 17th APRIL

08:30 – 12h45 › PARALLEL SESSIONS 11&12

	ROSERAIE 1&2	SAINT CLAIR 1	SAINT CLAIR 2	SAINT CLAIR 3	SAINT CLAIR 4
8:45 – 9:15	Gottardi Lecture A. Krishnan		USTV Lecture N. Shchedrina	Mott Lecture Y. Yue	
	A SUSTAINABLE MATERIAL - 6	**GLASS TO CRYSTAL - 5**	**OPTICAL PROPERTIES AND PHOTONICS - 7**	**BASIC GLASS SCIENCE – 11**	**HEALTH CARE AND MEDICAL APPLICATIONS - 4**
9:30 – 9:45		A. Bhatnagar	T. Cardinal	A. Cormack	E. Vernè
9:45 – 10:00	M. Sander			N. Shcheblanov	
10:00 – 10:15	Y. Yuan	K. Thieme	F. Calzavara	O. Kryvchikov	P. Sinitsyna
10:15 – 10:30	R. Ireson	Y. Liu	R. Chahal	M. B. Østergaard	X. Chen
	A SUSTAINABLE MATERIAL - 7	**GLASS TO CRYSTAL - 6**	**OPTICAL PROPERTIES AND PHOTONICS - 8**	**BASIC GLASS SCIENCE – 12**	**HEALTH CARE AND MEDICAL APPLICATIONS - 5**
11:00 – 11:15	S. Tiozzo	M. Deguchi	M. Pitcher	M. De Oliveira	C. Blaeß
11:15 – 11:30	G. Gorni	G. Helsch		Y. Onodera	Z. Neščáková
11:30 – 11:45	E. H. Miguel	B. Paiva da Fonseca	B. Khan	K. M. Weitzel	C. Mao
11:45 – 12:00	J. Kraxner	L. Chomat	C. Bartsch	S. Reinsch	P. Syam Prasad
12:00 – 12:15	H. Sajjad	P. Fauvarque	J. J. Velázquez García	E. Mori	P. Aramanda
12:15 – 12:30	M. Gonzalez-Longueira	G. Yunlan	J. Wei	C. Fourmentin	H. Kaňková
12:30 – 12:45	L. Pereira	G. Sharma		E. Stavrou	L. Ascenci

FRIDAY 17th APRIL

ROSERAIE 1&2

GOTTARDI PRIZE

Session Chair: Erik MUIJSENBERG

Room: ROSERAIE 1&2

08:30 › **N. M. Anoop Krishnan**
Bridging scales and disciplines: Machine learning for understanding and designing glassy materials

ICG International Commission on Glass

SAINT CLAIR 2

USTV Ph-D AWARD

Session Chair: Laurent CORMIER

Room: SAINT CLAIR 2

08:30 › **Nadezhda Shchedrina**
Silica glass densification under electron and femtosecond laser irradiation

USTV UNION POUR LA SCIENCE & LA TECHNOLOGIE VERRIÈRES

SAINT CLAIR 3

N.F. MOTT AWARD

Session Chair: Liping HUANG

Room: SAINT CLAIR 3

08:30 › **Yuanzheng Yue**
Discover crucial glass problems from 'easily negligible' phenomena

ROSERAIE 1&2

A SUSTAINABLE MATERIAL - 6

Session Chair: Franck PIGEONNEAU, Christian ROOS

09:45 › **M. Sander**, *Glass Service*
The glass crisis: Are glass containers obsolete before net-zero?

10:00 › **Y. Yuan**, *TUBAF*
Microwave-plasma furnace melting of recycled green container glass: Effect of melting time and atmosphere

10:15 › **R. Ireson**, *Glass Futures*
Low carbon fuels for the glass industry: Pilot trials and future opportunities

10:30 - 11:00 › **COFFEE BREAK**

ROSERAIE 1&2

A SUSTAINABLE MATERIAL - 7

Session Chair: Franck PIGEONNEAU, Christian ROOS

11:00 › **S. Tiozzo,** *Stazione Sperimentale del Vetro*
Horizon Europe project H2GLASS: First campaigns of industrial scale H_2 combustion trials in the oxy-fuel glass melting furnaces of Steklarna Hrastnik and Owens Corning

11:15 › **G. Gorni,** *Ceramics and Glass Institute, CSIC*
Recycling technologies and applications of borosilicate glasses

11:30 › **E. H. Miguel,** *Clausthal University of Technology*
Energy-efficient melting of borosilicate glass using cullet

11:45 › **J. Kraxner,** *University of Trenčín*
Characterization of prepared 3D objects in borosilicate glass using a laser-based additive manufacturing process

12:00 › **H. Sajjad,** *University of Vigo*
Viability of 100% waste borosilicate labware as a feedstock for crack-free additive manufacturing by laser directed energy deposition (LDED)

12:15 › **M. Gonzalez-Longueira,** *University of Vigo*
Recycling of LAS glass-ceramic cooktop waste using laser directed energy deposition (LDED)

12:30 › **L. Pereira,** *Beihang University*
Recycling of LCD panels: thermo-rheological and structural behaviour of recovered glass

FRIDAY 17th APRIL

SAINT CLAIR 1

GLASS TO CRYSTAL – 5

Session Chair: Gael DELAIZIR, E. B. FERREIRA

09:30 › **Invited: A. Bhatnagar**, *Schott AG*
Sodium ion conducting glass ceramics

10:00 › **K. Thieme**, *Fraunhofer Institute for Microstructure of Materials and Systems*
Crystallization of β-cristobalite in CaO-Al_2O_3-SiO_2 glasses

10:15 › **Y. Liu**, *Wuhan University of Technology*
Effect of Al_2O_3 on the crystallization behavior and thermophysical properties of BaO-Al_2O_3-SiO_2 system glass-ceramic

10 :30 – 11 :00 › **COFFEE BREAK**

SAINT CLAIR 1

GLASS TO CRYSTAL – 6

Session Chair: Mina DEGUCHI, Nadja LONROTH

11:00 › **M. Deguchi,** *NEG*
All-solid-state sodium-ion secondary batteries fabricated glass-ceramics

11:15 › **G. Helsch,** *Clausthal University of Technology*
Thermal expansion of Cu-stuffed SiO_2-polymorphs prepared by sol-gel spray-drying

11:30 › **B. Paiva da Fonseca,** *Clausthal University of Technology*
Stuffed derivatives of cristobalite crystallized from spray-dried glass powders: structure, phase transition and thermal expansion

11:45 › **L. Chomat,** *Université Paris-Saclay, CNRS, CEA*
Influence of crystallization on stress corrosion cracking properties: Part I micro-structured lithium disilicate glass-ceramics

12:00 › **P. Fauvarque,** *Université Paris-Saclay, CNRS, CEA*
Influence of crystallization on stress corrosion cracking properties: Part II - nano-structured ZAS glass-ceramics

12:15 › **G. Yunlan,** *Wuhan University of Technology*
Crystal growth behavior and mechanical properties of glass-ceramics with the sequential crystallization of $ZnAl_2O_4$ and Zn_2SiO_4

12:30 › **G. Sharma,** *University of Leeds*
Bi_2S_3 Q-Dot silicate glass for thermal energy harvesting

SAINT CLAIR 2

OPTICAL PROPERTIES AND PHOTONICS - 7

Session Chair : Michael PITCHER

09:30 › **Invited: T. Cardinal**, *Université de Bordeaux*
How phosphate or germanate glasses can provide solutions for integrated optics

10:00 › **F. Calzavara**, *Institute for Photonics and Advanced Sensing*
Integration of active glass with planar waveguide platform

10:15 › **R. Chahal**, *University of Rennes, CNRS*
Infrared photonic sensors based on chalcogenide thin films for monitoring of water pollutants

10 :30 – 11 :00 › **COFFEE BREAK**

SAINT CLAIR 2

OPTICAL PROPERTIES AND PHOTONICS - 8

Session Chair : Thierry CARDINAL

11:00 › **Invited: M. Pitcher,** *CEMHTI*
Glass crystallisation as a route to new metastable oxides: Example of the highly non-stoichiometric garnets

11:30 › **B. Khan,** *FunGlass, Friedrich-Schiller-Universität Jena*
Preparation, crystallization kinetics, and optical temperature sensing properties of Er^{3+} and Tm^{3+} doped oxyfluoride glass and glass-ceramics containing $KErF_4$, $KTmF_4$, and $KZnF_3$ crystals

11:45 › **C. Bartsch,** *Friedrich-Alexander-University Erlangen-Nuremberg*
Synthesis and characterization of $Ca_2Nb_2O_7$ - based glass-ceramics for optical applications

12:00 › **J. J. Velázquez García,** *FunGlass, Alexander Dubček University of Trenčín*
Tailoring multifunctional properties through controlled synthesis of Gd- and Mn-doped zinc tungstate glass-ceramics

12:15 › **J. Wei,** *State Key Laboratory of Advanced Glass Materials*
A new oxysulfide glass-ceramics embedded with ternary rare earth sulfide nanocrystals

FRIDAY 17th APRIL

SAINT CLAIR 3

BASIC GLASS SCIENCE – 11

Session Chair: Oliver ALDERMAN

09:30 › **A. Cormack**, *Alfred University*
Molecular Dynamics simulations of the environment of alkali ions in mixed lithium-sodium silicates

09:15 › **N. Shcheblanov**, *Maastricht University*
Origins of thermal anomalies in glasses

10:00 › **O. Kryvchikov**, *National Academy of Sciences of Ukraine*
Phenomenological understanding of thermal conductivity in complex crystals and glass-like materials across broad temperature ranges

10:15 › **M. B. Østergaard**, *Aalborg University*
Thermal conductivity of oxide glass-ceramics

10 :30 – 11 :00 › **COFFEE BREAK**

SAINT CLAIR 3

BASIC GLASS SCIENCE – 12

Session Chair: Oliver ALDERMAN

11:00 › **M. De Oliveira,** *Instituto de Física de São Carlos*
Probing short-range structural disorder and glass formation in hybrid glasses obtained from metal-organic frameworks

11:15 › **Y. Onodera,** *National Institute for Materials Science*
Intermediate-range structure of P_2O_5 glass revealed by a combination of quantum beam diffraction and topological data analyses

11:30 › **K. M. Weitzel,** *Philipps Universität Marburg*
Unraveling the correlation between populated site energies, activation barriers and saddle point energies in solid ion conductors

11:45 › **S. Reinsch,** *Bundesanstalt für Materialforschung und -prüfung (BAM)*
Properties and structure of glasses along the join xNa_2O-$(x/2)Al_2O_3$-$(x/2)B_2O_3$-$(100-x)SiO_2$

12:00 › **E. Mori,** *Institute of Science Tokyo*
Local structure of Ni ions in Na_2O-MgO-Al_2O_3-SiO_2 glasses and melts

12:15 › **C. Fourmentin,** *Université libre de Bruxelles*
Mapping structural correlations at the nanoscale in phase-separated glasses using 4D-STEM

12:15 › **E. Stavrou,** *Israel Institute of Technology*
Pressure-induced structural transformations and electronic transitions in TeO_2 glass by Raman spectroscopy

SAINT CLAIR 4

GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS - 4

Session Chair: Gigliola LUSVARDI

09:30 › **Invited: E. Vernè**, *Politecnico di Torino*
Innovative compositions of bioactive glasses and glass-ceramics with regenerative and therapeutic purposes

10:00 › **P. Sinitsyna**, *Åbo Akademi University*
Impact of phosphorous on dissolution kinetics of bioactive glasses

10:15 › **X. Chen**, *Central South University*
Copper-doped fluoride-containing bioactive glasses inhibit streptococcus mutans activity and biofilm formation for caries prevention

10:30 - 11:00 › **COFFEE BREAK**

SAINT CLAIR 4

GLASS FOR HEALTH CARE AND MEDICAL APPLICATIONS - 5

Session Chair: Jeremy SOULIE

11:00 › **C. Blaeß,** *Federal University of São Carlos*
Sintering and cell proliferation of ink-jetted bioactive glass scaffolds with different crystallization tendencies

11:15 › **Z. Neščáková,** *FunGlass, Alexander Dubček University of Trenčín*
Light-driven bioactive systems for antimicrobial and regenerative therapies

11:30 › **C. Mao,** *The Second Affiliated Hospital of Wenzhou Medical University*
Multifunctional bioactive glass nanoparticle composite dressings for promoting diabetic wound healing

11:45 › **P. Syam Prasad,** *National Institute of Technology Warangal*
Rare-earth ion-doped mesoporous bioactive glasses: Multifunctional platforms for bone regeneration

12:00 › **P. Aramanda,** *Malla Reddy University*
MXene-bioglass nanocomposites as next-generation bioactive platforms for accelerated bone regeneration

12:15 › **H. Kaňková,** *A. Dubček University of Trenčín*
Targeted incorporation of phosphorus into mesoporous bioactive glasses preparation by evaporation induced self assembly method

12:30 › **L. Ascenci,** *Université Bourgogne Europe, CNRS*
Towards Infrared-transmitting maneuverable hybrid fibers combining chalcogenide glasses and shape-memory polymers

LIST OF POSTERS

1	Analytical Models to Evaluate Stresses in Chemically Strengthened Glass ***Konstantin Koreshkov***, *Douglas Allan*
2	Combined X-ray Raman Scattering, X-ray Emission Spectroscopy, and Optical Raman Spectroscopy for in situ Studies of Glasses and Melts under Extreme Conditions ***Leonie Tipp***, *Mirco Wahab, Robin Sakrowski, Gordon Scholz, Christoph Sahle, Christian Sternemann, Sindy Fuhrmann*
3	Effect of R Ratio on the Dielectric and Thermal Properties of SiO_2–Al_2O_3-B_2O_3–Na_2O Glasses for Semiconductor Packaging Substrates ***Seo Yoon Lee***, *Woon Jin Chung, Jin Wook Jang*
4	Heat Capacity Measurements of Molten Glass by Using a Mercury-Free Drop Calorimeter ***Hirofumi Tokunaga***, *Toru Sugawara, Satoshi Yoshida*
5	Impact of Fluorine on Silicate Glass Structure and Diffusivity ***John Bussey***, *Daniel Neuville, John McCloy*
6	Incorporation of molecular water in silicate networks ***Igor Seibel-Geraschenko***, *Alexander Croy, Lothar Wondraczek*
7	Investigation of the Effect of Fourth Component Addition on the Solubility of ZrO2 in SrO–SiO2 System Glass by High-Throughput Micro-Melting Method ***Tetsuo Kishi***, *Teppei Osawa, Kana Tomita, Tetsuji Yano*
8	Li-Ion Transport and Mechanics of Li–S–P–B–I Glassy Electrolytes ***Li Yong***, *Du Tao, Christensen Rasmus, Smedskjaer Morten*
9	Micrometric patterning of a borogermanate glass containing terbium by thermal poling to manage luminescence and second order optical properties ***Martin Smith***, *Juliane Resges Orives, Lia Mara Marcondes, Frédéric Adamietz, Thierry Cardinal, Marcelo Nalin, Marc Dussauze*
10	Multi-Scale Structural Origins of Rare-Earth Luminescence in Glasses ***Qi Zhang***, *Xian Wei, Ruilin Zheng*
11	Potential Drop Method to measure high velocity sub-cracking in oxide glasses ***Bastien Girault***, *Nitin Gupta, Priscille Fauvarque, Laure Chomat, Daniel Bonamy, Cindy Rountree*
12	Pressure-induced densification of vitreous silica: Insight from elastic properties ***Coralie Weigel***, *Benoit Rufflé, Marie Foret, René Vacher*
13	Probing the Structure of Titanium-Bearing Sodium Phosphate Glasses: Insights into the Short- and Intermediate-Range Order ***Rafaella Bartz Pena***, *André Yoshioka, Edgar Dutra Zanotto, Michael Hansen, Hellmut Eckert*

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