

LOMONOSOV CONFERENCE

Programme and Room Allocation

Sunday 4 th September			
	Room?	Monson I	Monson II
09:30 – 12:30	Registration?	Business Meeting: ICG TC07 <i>(Nucleation, Crystallisation and Glass Ceramics)</i>	Business Meeting: ICG TC22 <i>(Structure-Property Relationships)</i>
12:30 – 14:00		Lunch Break*	
1400 – 17:00	Registration	Business Meeting: ICG TC03 <i>(Glass Structure)</i>	Business Meeting: ICG TC05 <i>(Nuclear and Hazardous Waste Vitrification)</i>
19:00 – 21:00		Welcome Reception	

* Lunch is not provided, but can be taken at nearby cafés/restaurants.

Simkins Lee Lecture Theatre: Monday 5th September

09:20 – 09:30	Brian McMillan: <i>Opening Ceremony & Welcome.</i>
09:30 – 09:50	David Martlew: <i>Pilkington Award Announcement.</i>
09:50 – 10:40	Tatiana Moiseeva: <i>Mikhail V. Lomonosov (1711-1765): "To Glass All His Labour Was Applied."</i>
Coffee/Tea	
Chemical Aspects of Glass Structure (ICG TC03)	
(Chair: Akira Takada)	
11:00 – 11:40	Gregory Tricot: <i>Advanced Solid-State NMR Methods for the Characterization of Glass Networks.</i>
11:40 – 12:00	Diane Holland: <i>Superstructural Units in Pyrex – a DOR NMR Study.</i>
12:00 – 12:20	Francisco Muñoz: <i>Structure of Oxynitride Phosphate Glasses.</i>
12:20 – 12:40	Hirromichi Takebe: <i>Effect of B₂O₃ and Al₂O₃ Addition on the Structure of Phosphate Glasses.</i>
12:40 – 13:00	Armenak Osipov: <i>Structure of Li₂O-B₂O₃ and Na₂O-B₂O₃ High-Alkali Melts: A High-Temperature Raman Spectroscopy Investigation.</i>
Lunch	
Theory & Computer Simulation (ICG TC03)	
(Chair: Francisco Muñoz)	
14:00 – 14:40	Akira Takada: <i>Disorder of Glass Structure in Terms of Configurational Entropy.</i>
14:40 – 15:00	Ondrej Gedeon: <i>Rings and Configuration Entropy in Glass Prepared by MD.</i>
15:00 – 15:20	Oliver Villain: <i>A Combined Molecular Dynamics, First-Principles and NMR Structural Study of Sodium Silicate Glasses.</i>
Nano-Phases in Glass	
(Chair: Giuseppe Dalba)	
15:20 – 15:40	Manfred Dubiel: <i>Nucleation and Growth of Crystalline Ag Nanoparticles in Glass.</i>
15:40 – 16:00	Araceli de Pablos-Martin: <i>Crystallisation Kinetics and Luminescence Properties of Er³⁺/Yb³⁺ doped NaYF₄ Nano-Glass-Ceramics.</i>
Tea/Coffee	
16:20 – 16:40	Janis Kliava: <i>Nanoparticle-Containing Oxide Glasses: Transparent Magnets.</i>
16:40 – 17:00	Vikram Singh Raghuwanshi: <i>ASAXS Study of the Precipitation of Ferrimagnetic Nanocrystals in the Na₂O-MnO-SiO₂-Fe₂O₃ system.</i>
17:00 – 17:20	Andreia Ruivo: <i>Ruby Copper Thin Layers in Float Glass by Using Spray Pyrolysis or Ionic Exchange in Melted Copper Compounds.</i>
17:20 – 17:40	Márcia Ventura: <i>Colouring Glasses Using Nanoparticles Synthesized Within Polyelectrolytes Multilayers Assembled Through the Layer by Layer Method.</i>
17:40 – 18:00	Mohamed Marzouk: <i>Effect of P₂O₅ and MnO₂ on Crystallisation of Zn- and Zn-Mn Ferrite Glass-Ceramics.</i>

Talbot Hall: Monday 5th September

Coffee/Tea

Applied Glass Science

(Chair: Margaret West)

11:00 – 11:20	Emmanuelle Gouillart: <i>In-Situ Synchrotron Tomography of Soda-Lime Glass Batch Melting Reveals the Influence of Inter-granular Contacts on Reaction Routes.</i>
11:20 – 11:40	Sohei Sukenaga: <i>Effect of Oxygen Partial Pressure on the Viscosity of Iron Oxide Containing Alkali Silicate Melts.</i>
11:40 – 12:00	Thomas Pfeiffer: <i>Hydrothermal Dissolution of Copper Slag Glasses from the Mansfeld District.</i>
12:00 – 12:20	Hans Roggendorf: <i>Chemical Durability of a Slag Glass from Pig Iron Production: Reaction Products, Surface Alteration and Kinetics.</i>
12:20 – 12:40	Abdelmalek Roula: <i>A Global and Non-Dimensional Approach to Compute the Oxides Global Relative Glass Forming Ability.</i>
12:40 – 13:00	Robert Jones: <i>Inhibition of the Corrosion of E-Glass Fibres by Malonic Acid.</i>

Lunch

Composition/Structure – Property Relationships (ICG TC22)

(Chair: George Kordas)

14:00 – 14:20	Russell Hand: <i>Relationships Between the Mechanical Properties of Silicate Glasses and Chemical Composition.</i>
14:20 – 14:40	Ana Rodrigues: <i>Ionic Conductivity Enhancement by Halogenated Salt Dissolution in AgPO₃-AgI Glasses.</i>
14:40 – 15:00	Oleg Yanush: <i>New Interpretation of Oxide Glass Properties on the Basis of the Constant Stoichiometry Grouping (CSG) Concept.</i>
15:00 – 15:20	Athina Angelopoulou: <i>An Insight to the Germanate Anomaly: A Comparative EPR and RAMAN Study Supported by DFT Simulations.</i>
15:20 – 15:40	Robert Hill: <i>Fluorine Containing Bioactive Glasses.</i>
15:40 – 16:00	

Tea/Coffee

Glass Properties (ICG TC22)

(Chair: Georges Calas)

16:20 – 16:40	Sharifah Shaharuddin: <i>Thermal, Viscosity and Thermal Expansion Coefficient Properties for a Range of Phosphate Based Glasses.</i>
16:40 – 17:00	Mark Stamminger: <i>Electrical Conductivity of Quartz Glass Measured by Impedance Spectroscopy Between 600°C and 1100°C.</i>
17:00 – 17:20	Pauline Gateau: <i>Tin Oxide Solubility in Soda-Lime Silicate Melts.</i>
17:20 – 17:40	Delia Brauer: <i>Effects of Magnesium for Calcium Substitution in Phosphate Glasses.</i>

Monson Room: Monday 5th September	
Coffee/Tea	
History & Heritage: Russian Glass History	
(Chair: David Martlew)	
11:00 – 11:40	Natalia Vedishcheva: <i>Russian Glass Chemistry: From Lomonosov to Shultz.</i>
11:40 – 12:20	Sarah Paynter: <i>Ancient Glassmaking Furnaces.</i>
12:20 – 13:00	
Lunch	
History & Heritage: Roman & Medieval Glass	
(Chair: Linn Hobbs)	
14:00 – 14:40	Vera Keller: <i>Pliny's Lost Glass: The Search for Flexible Glass and the Formation of Research Agendas in Early Modern Europe.</i>
14:40 – 15:20	Dieter Brems: <i>Looking for Primary Roman Glass Production in the Western Mediterranean.</i>
15:20 – 16:00	Monica Ganio: <i>Trade Routes Across the Mediterranean: A Sr/Nd Isotopic Investigation of Roman Colourless Glass.</i>
Tea/Coffee	
(Chair: Vera Keller)	
16:20 – 17:00	Pisutti Dararutana: <i>Roman Mosaic Glass Found in Thailand.</i> – Not coming? Ceri Lambdin?
17:00 – 17:40	Rainer Werthmann: <i>Glass Coatings on Stones of Copper Smelting Furnaces: Bronze Age Originals and Results of Archæological Experiments.</i>
17:40 – 18:00	General Discussion.

Simkins Lee Lecture Theatre: Tuesday 6th September

(Chair: Natalia Vedishcheva)

09:00 – 09:50 **David Pye: *Stained Glass: A Glass Science Perspective.***

Conditional/Lone-Pair Glass Formers

(Chair: Yanko Dimitriev)

10:00 – 10:40 **Alex Hannon: *The Structural Role of Lone-Pair Cations in Glasses.***

Coffee/Tea

11:00 – 11:40 **Emma Barney: *The Influence of Modifiers on the Tellurium Environment in Glass.***

11:40 – 12:00 **Tatiana Markova: *Intermediate-Range Order in the Tellurite Glassforming System PbO-P₂O₅-TeO₂ Studied by Raman Spectroscopy and X-ray Powder Diffraction.***

12:00 – 12:20 **Ladislav Koudelka: *Lead Tungstate-Phosphate glasses: Structural Study, Properties and Crystallization.***

12:20 – 12:40 **Reni Iordanova: *Glass Formation and Structure of Glasses in the ZnO-V₂O₅-WO₃-MoO₃ System.***

12:40 – 13:00

Lunch

Non-Oxide Glasses

(Chair: Marie-Louise Saboungi)

14:00 – 14:40 **Bruce Aitken: *Where Constraint Theory Breaks Down: The Case of Molecular Chalcogenide Glasses.***

14:40 – 15:20 **David Price: *Short- and Intermediate-Range Order of Phosphorus-Selenium Glasses.***

Tea/Coffee

Glass-Forming Melts: Thermodynamics & Equilibria

(Chair: Marek Liska)

15:40 – 16:00 **Natalia Vedishcheva: *The Vitreous State: A Product of Chemical Equilibria.***

16:00 – 16:20 **Olga Koroleva: *Thermodynamic Modelling and High-Temperature Raman Spectroscopy of Silicate Melts.***

16:20 – 16:40 **Leyla Osipova: *Raman Spectra of Two-Alkali Borate Glasses and Melts.***

16:40 – 17:00 **Victor Minaev: *Is the Term “Polyamorphism” Correct for Non-Crystalline Substances?***

17:00 – 17:20 **Lothar Wondraczek: *In Situ Analyses of Glasses and Supercooled Melts in Microconfinement.***

17:20 – 17:40

Talbot Hall: Tuesday 6th September

Waste Vitrification: Chemical Structure (ICG TC05)

(Chair: Michael Ojovan)

10:00 – 10:40 **Sergey Stefanovsky: *Elemental Speciation in Nuclear Waste Glasses.***

Coffee/Tea

11:00 – 11:20 Abdessamad Kidari: *Investigation of the Solubility of Lanthanides and Minor-Actinides in SiO₂-B₂O₃-Na₂O-Al₂O₃-CaO Glasses.*

11:20 – 11:40 Amélie Monteiro: *Chemical Mechanisms During Vitrification of Model Containment HLW Glass.*

11:40 – 12:00 Barbara Dunnett: *Vitrification of High Molybdenum Waste.*

12:00 – 12:20 Leslie Dewan: *Modelling Radiation-Induced Alteration of the Network Topology of Alkali Borosilicate High-Level Waste Glass.*

12:20 – 12:40 Paul Bingham: *Spectroscopic Investigation of Glasses Produced by Microwave Heating.*

12:40 – 13:00 Sergey Stefanovsky: *Structural Features of High-Fe₂O₃ and High-Al₂O₃/Fe₂O₃ SRS HLW Glasses.*

Lunch

Waste Vitrification: Durability & Devitrification (ICG TC05)

(Chair: Carl Steele)

14:00 – 14:20 Mike Harrison: *Investigation of the Effect on Long-Term Aqueous Durability with Variations in the Composition of UK Vitrified HLW Product.*

14:20 – 14:40 Odile Majérus: *Alteration kinetics of Eu₂O₃-Bearing Sodium Borosilicate Glasses in Aqueous Solutions Containing MgCl₂, CaCl₂, AlCl₃ or ZnCl₂ salts.*

14:40 – 15:00 Denis Strachan: *The Glass Dissolution Rate Equation Revisited.*

15:00 – 15:20 Nolwenn Chouard: *Crystallisation Study of an Aluminosilicate Glass Containing both Rare Earths and Molybdenum.*

Tea/Coffee

Waste Vitrification: Glass Properties (ICG TC05)

(Chair: Michael Harrison)

15:40 – 16:20 **Michael Ojovan: *Viscous Flow and Viscosity of Melts and Glasses.***

16:20 – 16:40 Carl Steele: *Viscosity of Simulated High Level Waste Vitrified Residues.*

16:40 – 17:00 Jesús Rincón: *Thermal Behaviour of Iron Aluminium Phosphate Glasses containing UO_{2.67}.*

17:00 – 17:20 Toru Sugawara: *High-Temperature Density and Heat Capacity of a Simulated High-Level Radioactive Waste Glass.*

17:20 – 17:40 Keita Watanabe: *X-ray CT Imaging of Vitrified Glasses Containing Pseudo-Radioactive Wastes.*

17:40 – 18:00

Monson Room: Tuesday 6th September

History & Heritage: Museum Collections & Scientific Background

(Chair: Natalia Vedishcheva)

10:00 – 10:40 Linn Hobbs: *Old Kingdom Egyptian Faience: Some New Perspectives.*

Coffee/Tea

(Chair: Dieter Brems)

11:00 – 11:40 John Smith: *Glass Furniture in St. Peterburgh*

11:40 – 12:20 Anna Marie Roos: *The Prince and the Popper: Prince Rupert's Drops and Natural History in the Early Royal Society.*

12:20 – 13:00

Lunch

14:00 – 15:20 Exhibitors Forum (Set Up Time)

Tea/Coffee

Exhibitors Forum

(Chair: Bill Brookes)

15:40 – 18:00 Exhibitors Forum:

?? Johnson Matthey: *Platinum and Noble Metals for Glassmaking.*

Lambda Photometrics: *Scanning Electron Microscopy.*

Metler Toledo: *Differential Thermal Analysis.*

Panalytical: *X-Ray Fluorescence & X-Ray Diffraction.*

?? Scientific Support Services: *Optical Microscopy.*

Simkins Lee Lecture Theatre: Wednesday 7th September

(Chair: David Pye)

09:00 – 09:50 **Isabelle Pallot-Frossard: *Transparency and Opacity: Light and Colour in the Art of Stained Glass.***

Crystallisation/Devitrification (ICG TC07)

(Chair: Ladislav Koudelka)

10:00 – 10:40 **Edgar Zanotto: *Dynamic Processes in a Silicate Liquid from Above the Melting Point to Below the Glass Transition.***

Coffee/Tea

11:00 – 11:20 Wolfram Höland: *Controlled Crystallization of Xenotime- and Monazite-Type Crystals in Glass-Ceramics.*

11:20 – 11:40 Juern Schmelzer: *Dependence of Crystallization Processes of Glass-Forming Melts on Prehistory: A Theoretical Approach to a Quantitative Treatment.*

11:40 – 12:00 Salaheddine Alahraché: *Vitrification and Crystallisation in the Y_2O_3 - Al_2O_3 system.*

12:00 – 12:20 Joachim Deubener: *The Influence of Sulphur on Nucleation and Crystal Growth in Na_2O - SiO_2 glasses.*

12:20 – 12:40 Noritaka Saito: *Effect of Agitation on Crystallisation Behavior of Calcium Silicate Melts.*

12:40 – 13:00 Yanko Dimitriev: *Crystallisation of ZnO From Supercooled Melts and Glasses.*

Lunch

Crystallisation & Glass-Ceramics (ICG TC07)

(Chair: Edgar Zanotto)

14:00 – 14:20 Natalia Karpukhina: *Effect of Sodium, Potassium and Zinc Substitutions in Lithium Disilicate Glass and Glass-Ceramics.*

14:20 – 14:40 Hélène Vigouroux: *Phase Separation and Crystallization Mechanism in $LiNbO_3$ - SiO_2 Glasses.*

14:40 – 15:00 Marek Liska: *Nucleation and Crystallisation of As_2Se_3 Undercooled Melt.*

15:00 – 15:20

Tea/Coffee

Heterogeneity & Phase Separation

(Chair: Ana Rodrigues)

15:40 – 16:00 Oleg Yanush: *Fluctuation Inhomogeneities in Glasses and Melts Studied by Light Scattering Spectroscopy and High Temperature Acoustic Methods.*

16:00 – 16:20 Gavin Mountjoy: *The role of Cation Bond Valence in the Phase Separation of Binary Silicate Melts and Glasses.*

16:20 – 16:40 Elena Kashchieva: *Microstructure of Multicomponent Borosilicate Glasses Containing MoO_3 .*

16:40 – 17:00 Olga Dymshits: *Influence of CoO Addition on the Phase Separation and Crystallisation of Glasses of the ZnO - Al_2O_3 - SiO_2 - TiO_2 System.*

17:00 – 17:20 Armin Hoell: *ASAXS as a Tool to Investigate Phase Separation in Glasses as Shown in the Case of Cuprous Halide Photochromic Glasses.*

17:20 – 17:40 Andreia Ruivo: *Spectroscopic Studies of Photochromic Glasses.*

17:40 – 18:00

Talbot Hall: Wednesday 7th September

New Researchers Forum: History & Applied Glass Science

(Chair: Paul Bingham)

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|---------------|---|
| 10:00 – 10:15 | Tom Smith: <i>Interdisciplinary Studies of Ancient Glass from Dichin, Bulgaria.</i> |
| 10:15 – 10:30 | Marilyn Griffiths: <i>A Temporal Assessment of the Educational Philosophies Reflected in the Historical Artefacts at the Welsh School of Architectural Glass, Swansea..</i> |
| 10:30 – 10:45 | Myrtille Hunault: <i>Optical Spectroscopy of Cobalt in Oxide Glasses.</i> |

Coffee/Tea

New Researchers Forum: Glass Formation & Structure

(Chair: Diane Holland)

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|---------------|---|
| 11:05 – 11:20 | Nerea Mascaraque: <i>Glass Formation in Lithium Phosphate Glasses with Anionic Substitution.</i> |
| 11:20 – 11:35 | Julien Grynberg: <i>Glass Batch Reactions Observed at the Granular Scale.</i> |
| 11:35 – 11:50 | Buhsra Al Hasni: <i>Structure of Amorphous Iron Phosphate FePO₄.</i> |
| 11:50 – 12:05 | Oliver Alderman: <i>Local Structure in Pb²⁺ Containing Silicate and Germanate Glasses.</i> |
| 12:05 – 12:20 | Damir Mukimov: <i>The Structure and Vitrification Process of Arsenic Chalcogenide As₅₀Se₅₀.</i> |
| 12:20 – 12:35 | Nattapol Laorodphan: <i>Amorphous Structure in Thallium Germanate Binary Glasses.</i> |
| 12:35 – 12:50 | Sindy Reibstein: <i>Structure-Property Relationship of Ionic Sulfophosphate Glasses.</i> |

Lunch

New Researchers Forum: Waste Vitrification & Glass-Ceramics

(Chair: John Parker)

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|---------------|---|
| 14:05 – 14:20 | Nathan Cassingham: <i>Durability of UK Nuclear Waste Glasses in Neutral and High pH Solutions.</i> |
| 14:20 – 14:35 | Andrew Grigg: <i>Encapsulation of β-tricalcium Phosphate in a Sodium Aluminophosphate Glass Matrix.</i> |
| 14:35 – 14:50 | Owen McGann: <i>Gamma Irradiation Effects in Glasses Intended for the Immobilisation of Nuclear Waste.</i> |
| 14:50 – 15:05 | James Stevens: <i>Understanding the Effect of Refractory Spinel Phases on HLW Glass Processing.</i> |
| 15:05 – 15:20 | Aymeric Dugué: <i>Ni Environment and its Structural Role in MgO-Al₂O₃-SiO₂ Glasses and Glass-Ceramics.</i> |

Tea/Coffee

Industrial Applications

(Chair: Brian McMillan)

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|---------------|---|
| 15:40 – 16:00 | Peter Sundberg: <i>Color Prediction Software for Designers and the Glass Industry: A Tool for Art, Design and Conservation.</i> |
| 16:00 – 16:20 | Tetsuji Yano: <i>Melting History of In-Flight Melted Soda-Lime-Silica Glasses using an Oxy-Fuel Combustion Burner.</i> |
| 16:20 – 16:40 | Helena Kočárková: <i>Drainage and a Life Time of a Single Bubble Rising Through a Molten Glass.</i> |
| 16:40 – 17:00 | Julien Fourcade: <i>New Tin Oxide Electrodes for High Temperature Applications.</i> |
| 17:00 – 17:20 | Isabelle Cabodi: <i>New Highly-Resistive Zirconia Fused Cast Products for Alkali-Free Glass Melting.</i> |
| 17:20 – 17:40 | Stephen Pollock-Hill: <i>Ravenscroft Revisited and Updated by a New World-Class Crystal Invention!</i> |
| 17:40 – 18:00 | |

Monson Room: Wednesday 7th September

History & Heritage: Stained Glass Problems

(Chair: David Pye)

10:00 – 10:40 David Dungworth: *Historic Windows: Investigation Without the Sound of Breaking Glass.*

Coffee/Tea

(Chair: David Dungworth)

11:00 – 11:40 Rebecca Scott: *The Analysis of In-Situ 17th Century Painted Glass from Christ Church Cathedral, Oxford.*

11:40 – 12:20 Richard Jaques: *Conservation of Historic Glazings: The Art of the Possible.*

12:20 – 13:00 Tobit Curteis: *Vulnerable Art: The Impact of Environment on Historic Stained-Glass Windows.*

Lunch

History & Heritage: Stained Glass Conservation

(Chair: Alun Adams?)

14:00 – 14:40 Ruth Cook: *Conservation of the Savile Chapel Glazing.*

14:40 – 15:20 Sarah Brown: *Preserving the New Jerusalem: Research, Conservation and the Great East Window of York Minster.*

Tea/Coffee

History & Heritage: Stained Glass Education & Technology

(Chair: Sarah Brown)

15:40 – 16:20 Alun Adams: *A Vision Fulfilled: Swansea's Stained Glass Tradition.*

16:20 – 17:00 Joanna Delgado: *Further Studies of Portuguese Stained Glass.*

17:00 – 17:40 Peter Wren Howard: *Recovery of the Lost Technology of Bright Red Copper Ruby.*

17:40 – 18:00 General Discussion.

Conference Reception & Dinner

19:00 – 19:30 Drinks Reception.

19:30 – ??:?? Conference Banquet.

?:?:? – ??:?? Presentation of SGT Fellowships and the Paul Award.

?:?:? – ??:?? David Pye: *The Shroud of Turin: A Possible Glass Connection?*

Simkins Lee Lecture Theatre: Thursday 8th September

(Chair: Adrian Wright)

09:00 – 09:50 John Parker: *Glass: Colouring our View of Life.*

Transition Metals & Colour

(Chair: Doris Ehrt)

10:00 – 10:40 Georges Calas: *Structural Properties Related to Transition Elements in Oxide Glasses: Application to Glass Colouration.*

Coffee/Tea

11:00 – 11:40 Paul Bingham: *The Complex Behaviour of Iron in Oxide Glasses: A Multispectroscopic Investigation.*

11:40 – 12:20 Doris Möncke: *Photoionisation of Transition Metal Ions in Glasses.*

12:20 – 12:40 Adrian Wright: *The Environment of Fe³⁺/Fe²⁺ and Dy³⁺ Ions in Oxide Glasses.*

12:40 – 13:00

Lunch

Rare Earth Elements

(Chair: Alex Hannon)

14:00 – 14:20 Doris Ehrt: *Photoluminescence of Rare earth and transition metals in glasses.*

14:20 – 14:40 Odile Majérus: *Nd³⁺ Environment and Solubility in Multicomponent Silicate Glasses.*

14:40 – 15:00 Mohamed Marzouk: *Ultraviolet, visible, ESR and Infrared Spectroscopic Studies of CeO₂-Doped Lithium Phosphate Glasses and the Effect of Gamma Irradiation.*

15:00 – 15:20 Estelle Molieres: *Structural Investigation of Rare-Earth-Doped Borosilicate Glass and Gel.*

Tea/Coffee

Bio-Glass, Sol-Gel & Oxy-Halide Systems

(Chair: Robert Hill?)

15:40 – 16:00 Athina Angelopoulou: *Evolution of P Environment in 45S5 Bioglass During the First Stage of HA Formation.*

16:00 – 16:20 Agnese Stunda: *Crystallization of Niobium-Containing Bioactive Phosphate Glass.*

16:20 – 16:40 Alfonz Plško: *Dielectric Properties of SiO₂-TiO₂-Al₂O₃ Thin Films Prepared by the Sol-Gel Method for Humidity Sensors.*

16:40 – 17:00 Andrey Kiprianov: *On the Binding of Halogens in Binary Alkali-Silicate Melts.*

17:00 – 17:10 Closing Ceremony

Talbot Hall: Thursday 8th September

Glass Surfaces/Interfaces & Durability

(Chair: Sarah Fearn)

10:00 – 10:40 Russell Hand: *Vitrification and Durability: Strategies for Vitrifying Wastes Containing Challenging Anions.*

Coffee/Tea

11:00 – 11:20 Tetsuji Yano: *Structures of Iron-Phosphate Glasses with High Chemical Durability.*

11:20 – 11:40 Mike Harrison: *Investigation of the Long-Term Dissolution of UK HLW Glass Using High Surface Area – to – Volume (S/V) Ratio Leach Tests.*

11:40 – 12:00 Ksenia Shandarova: *Mask-Etching as a Tool to Determine the Chemical Resistance of Glass Surfaces.*

12:00 – 12:20 Lee Gerrard: *Interfacial Reactions and Diffusion Characteristics of Binary Alloys with Silicate Glass-Ceramics.*

Workshop on Durability & Conservation of Glass I

(Chair: Paul Bingham)

12:20 – 13:00 Stephen Koob: *Crizzling Glasses: Problems and Solutions.*

Lunch

Workshop on Durability & Conservation of Glass II

(Chair: Mike Harrison)

14:00 – 14:40 Sarah Fearn: *Room Temperature Corrosion of Museum Glass: An Investigation using High Resolution SIMS.*

14:40 – 15:20 Denis Strachan: *Glass Dissolution.*

Tea/Coffee

Workshop on Durability & Conservation of Glass III

(Chair: Russell Hand)

15:40 – 16:20 Denis Strachan: *Approaches and Test Methods for Corrosion Testing of Vitrified Waste Forms.*

16:20 – 17:00 Leena Hupa: *Durability of Bioactive Glasses.*

Monson Room: Thursday 8th September

History & Heritage: Alchemy, Chemistry & Colour

(Chair: Adrian Wright)

10:00 – 10:40 Dedo von Kerssenbrock-Krosig: *Glass of the Alchemists: A Retrospect on an Exhibition at The Corning Museum of Glass 2008.*

Coffee/Tea

(Chair: David Martlew)

11:00 – 11:40 Kaj Karlsson: *Mikhail Lomonosov and Erik Laxman and the Dawn of Glass Technology.*

11:40 – 12:20 Michael Cable: *Tracing the Path of Glass Technology from Theophilus to Henrivaux.*

12:20 – 13:00 Carlos Queiroz: *The 18th Century Arcana of William Stephens.*

Lunch

History & Heritage: Glassmaking Techniques

(Chair: Andrew Smith)

14:00 – 14:40 Martina Bertini: *Experimental Reproduction of Iron Age Scottish Glass Beads: Linking Analytical Techniques to the Production of Replica Artefacts.*

14:40 – 15:20 Sally Haden: *They went to larn 'em: British Glassmakers Help to Establish Japan's First Western-Style Glassworks, 1873-1884.*

Tea/Coffee

History & Heritage: Glass Furnaces

(Chair: Peter Wren Howard)

15:40 – 16:20 Andrew Smith: *Further Archaeological Work at the Site of the Nailsea Glassworks New House Cone (SAM 28884).*

16:20 – 17:00 Marie-Helene Chopinet: *Developements of Siemens Regenerative and Tank Furnaces in Saint-Gobain in the XIXth Century.*

Posters

- P1: Lubo Aleksandrov: *Glasses in the $\text{MoO}_3\text{-La}_2\text{O}_3\text{-MgO-B}_2\text{O}_3$ System.*
- P2: Petra Cincibusová: *Dissolution of Sand Particles and Bubble Removal in a Model Melting Channel.*
- P3: Mária Chromčíková: *Viscosity and Viscous Flow Activation Energy of $\text{PbO-WO}_3\text{-P}_2\text{O}_5$ Glasses.*
- P4: Mihail Elisa: *Optical and Structural Characterization of Eu^{3+} , Dy^{3+} , Ho^{3+} and Tm^{3+} - Doped Phosphate Glasses.*
- P5: Jana Holubová: *Raman Spectra, Structure and Thermodynamic Model of As_2S_3 - Sb_2S_3 Glasses.*
- P6: M. Jebavá: *Bubble Removal from Glass Melts with Slow Vertical Circulations.*
- P7: Odile Majérus: *Nucleating Effect of MoO_3 on the Crystallisation of Apatite in a Rare-Earth-Rich Aluminoborosilicate Glass.*
- P8: Petr Mošner: *Structure and Properties of TeO_2 -Containing Lead Phosphate Glasses.*
- P9: Masahiro Seto: *Temperature and Compositional Dependence of Na_2O activity in Soda-Lime-Silicate Melts.*
- P10: Vojtech Soltész: *Corrosion of Bourre Glass Fibers in Borate Water Solution.*
- P11: Vladislava Tonarová: *The Behaviour of the Bubbles in Glass Melts in a Centrifugal Field.*