



Cambridge 2013

11 September 2013 to 13 September 2013

Organised by

Society of Glass Technology

Programme and Room Allocation



The Long Room : Wednesday 11th September

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09:00 - 09:20	Erhan Kilinc* and Russell J. Hand : <i>Effect of substituting alkaline earth metals for SiO₂ on the mechanical properties and connectivity of soda-lime-silica glasses</i>
09:20 - 09:40	Faizami Mohd Noor : <i>Li₂O-TeO₂ glasses and the tellurite glass story</i>
09:40 - 10:00	Teresa Almeida 1,2,a; Andreia Ruivo 1,3,b; António Pires de Matos1,c : <i>Production of luminescent glass enamels for artistic applications</i>
10:00 - 10:20	A. Winterstein-Beckmann *, D. Möncke (a), D. Palles E.I. Kamitsos and L. Wondrazcek : <i>Fluorescing defect centres induced by indentation in sodium- borosilicate glasses probed by micro-Raman and EPR spectroscopy</i>
	Coffee am
10:40 - 11:00	Annelore Blomme : <i>Fingerprinting first millennium B.C. glass artefacts by Sr and Nd isotopic analysis</i>
11:00 - 11:20	Chassé, M.1,* , Galois, L.1 , Lelong, G.1 , Calas, G.1 : <i>Oldfield Award 1st Prize Winner - Contrasted Speciation of Iron in Obsidians and Tektites: a Spectroscopic Study</i>
11:20 - 11:40	Myrtille Hunault *, Georges Calas, Laurence Galois, Gérald Lelong, Matt Newville : <i>Local ordering around divalent cobalt in silicate glasses</i>

11:40 - 12:00	Nusrat Sharmin : <i>Effect of Boron addition on the thermal properties, processing window and durability of phosphate based glasses</i>
12:00 - 12:20	Nasima Kanwal : <i>Structure investigation of metaphosphate glasses using ⁶⁷Zn and ⁴³Ca NMR and neutron diffraction</i>
	Lunch
13:20 - 13:40	Daniel J. Backhouse* , Russell J. Hand, Neil C. Hyatt : <i>A study of the dissolution behaviour of nuclear waste glasses in highly-alkaline conditions</i>
13:40 - 14:00	James W Lloyd* , Martin C Stennett & Russell J Hand : <i>Synthesis of Silicon Oxycarbide Glasses for Vitrification of Graphitic Nuclear Waste</i>
14:00 - 14:20	Nor E. Ahmad* , Julian R. Jones and William E. Lee : <i>Corrosion study of a simulated Magnox glass using MCC-1 type test</i>
14:20 - 14:40	Paul A. Bingham* , Balaasaran Jaganathan and Kate Brania : <i>Preparation and structure of alkali-alkaline earth borosilicate glasses</i>
14:40 - 15:00	B.M. Al-Hasni 1 , G. Mountjoy 1* , E.R. Barney 2 and P.A. Bingham 3 : <i>Molecular dynamics study of K and Ba iron phosphate glasses in relation to chemical durability</i>
	Coffee/Tea pm
15:20 - 16:00	Julian R Jones : <i>Bioactive glass scaffolds and their ability to stimulate bone regeneration</i>
16:00 - 16:20	Natalia Karpukhina1* , Josef W. Zwanziger2, Ulrike Werner-Zwanziger2, Andrey A.Kiprianov3 : <i>Role of cations in binding of fluoride in alkaline silicate glasses</i>
The Long Room : Thursday 12th September	
09:00 - 09:10	Roger Penlington : <i>Welcome and Introduction to the SGT</i>
09:10 - 09:50	Wolfram Holand : <i>Glass Ceramics - living materials for dental applications</i>
09:50 - 10:20	Alistair Wallace : <i>The Glass Academy</i>
	Coffee am
10:40 - 11:20	Adrian C. Wright : <i>A history of the theories of glass structure: Can we really believe what is written in text books?</i>
11:20 - 12:00	Ifty Ahmed* and Chris D Rudd : <i>Use of Phosphate-Based Glasses for Biomedical Applications</i>
12:00 - 12:40	Robert Law : <i>The role of strontium in bioglass</i>
	Lunch
13:40 - 14:00	A Mandlule1, F Döhler1, W Günther2, L van Wüllen3, DS Brauer1,* : <i>Dissolution of simple phosphate glasses</i>

14:00 - 14:20	Sebastian Kühn*, Niall Kent, Robert G. Hill, Natalia Karpukhina : <i>Effect of orthophosphate on bioactivity of phosphosilicate glasses at different pH</i>
14:20 - 14:40	Xiaojing Chen*, Natalia Karpukhina, Robert Hill : <i>The comparison between novel fluoride and chloride bioactive glasses</i>
14:40 - 15:00	Amy Nommeots-Nomm*, Dr Julian R. Jones : <i>Maintaining amorphous glass structure in porous bioactive scaffolds</i>
	Coffee/Tea pm
15:20 - 15:40	Oliver L. G. Alderman : <i>The germanate anomaly in alkaline earth germanate glasses</i>
15:40 - 16:00	Alex Hannon : <i>The structure of lead phosphomolybdate and lead phosphotungstate glasses by neutron diffraction</i>
16:00 - 16:20	Corinne Claireaux*(1), Marie-Hélène Chopinet(1), Michael J. Toplis(2), Mathieu Roskosz(3) & William Woelffel(1) : <i>Application of Raman spectroscopy to multicomponent silicate glasses</i>
16:20 - 16:40	(1)Mária Chromčíková *, (1)Marek Liška, (2)Jan Macháček & (3)Jozef Chovanec : <i>Thermodynamic model and selected physical properties of Na₂O - MgO - CaO - SiO₂ glasses</i>
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Vivien Stewart Room : Thursday 12th September	
10:40 - 11:20	Hillar Aben, Johan Anton, Mart Paemurru and Marella Öis. : <i>Modern photoelastic technology for residual stress measurement in glass</i>
11:20 - 12:10	Matthew Demmon : <i>Glass Recycling – A new closed loop</i>
12:10 - 12:40	Neil Simpson *Mark Cole BOC Gases Will Robinson, BOC Gases Rainer Mieth, Linde Group : <i>Fire Polishing Techniques on Container Glass Surfaces for Improved Appearance</i>
	Lunch
13:40 - 14:10	David Lever : <i>Borate Raw Materials for the Glass Industry</i>
14:10 - 14:40	Peter Clark : <i>Temperature Measurement without Contact</i>
14:40 - 15:10	John Henderson : <i>Coloured Glass</i>

15:20 - 15:50	Neil Simpson : <i>CGM 10 Years On and Still Running</i>
15:50 - 16:25	John Henderson : <i>The Purple Lalique Mystery</i>
The Long Room : Friday 13th September	
09:20 - 09:40	Safa Kasap*, Andy Edgar, George Belev, Cyril Koughia, Go Okada, Shahrzad Vahedi, Tomasz Wysokinski, Dean Chapman : <i>Sm-Doped Fluorophosphate and Fluoroaluminate Glasses for use in High-Resolution, High-Dose Detector Applications in Microbeam Radiation Therapy: The Role of Structural Defects</i>
09:40 - 10:00	Zlatka Stoeva, Irena Kostova, Georgi Patronov*, Dan Tonchev, Go Okada & Safa Kasap : <i>Synthesis, structures and optical properties of samarium doped zinc borophosphate glasses</i>
10:00 - 10:20	Roger Penlington*, Ian Forbes & Nicola Pearsall : <i>Thermophotovoltaic opportunities within the glass industry</i>
Coffee am	
10:40 - 11:00	Julia Malle, : <i>Overview of microfabrication techniques for lab-on-a-chip devices using glass substrates</i>
11:00 - 11:20	James Ashby : <i>Oldfield Award 2nd Place Winner - Metallic glasses: tougher than steel?</i>
11:20 - 11:40	D Holland : <i>The thallium environment in oxide glasses</i>
11:40 - 12:00	Jesús González Rodríguez and Russell J. Hand* Department of Materials Science & Engineering, University of Sheffield, Sir Robert Hadfield Building, Mappin Street, Sheffield, S1 3JD, UK : <i>High temperature indentation of float glass</i>
12:00 - 12:20	Sharafat Ali : <i>Effect of compactness on properties of oxynitride glasses</i>
Lunch	
13:20 - 13:40	Emma Barney : <i>The role of rare earth ions in chalcogenide glasses</i>
13:40 - 14:00	Ladislav Koudelka*, Petr Mošner, Lionel Montagne, Bertrand Revel : <i>Behaviour of indium oxide in zinc phosphate and borophosphate glasses</i>
14:00 - 14:20	A. Takada*, R. Conradt, P. Richet : <i>Residual entropy and structural disorder in glass</i>
14:20 - 14:40	(1)Mária Chromčíková, (2)Marek Liška*, (2)Jana Holubová & (2)Zdenek Cernošek 1 Vitrum Laugaricio – Joint Glass Center of IIC SAS, TnUAD, FChPT STU, and RONA, Študentská 2, Trenčín, SK-91150, Slovakia 2 Department of General and Inorganic Chemistry, Faculty of Chemical Technology, University of Pardubice, Studentská 573, Pardubice, CZ-532 10, Czech Republic : <i>Structure of As₂₀-Sb₂₀-S(60-x)-Se(x) Glasses studied by Combined Raman Spectroscopy and Thermodynamic Modelling Approach</i>

Vivien Stewart Room : Friday 13th September

09:00 - 09:40	Barry Clark and Sarah Cable : <i>Lead Crystal, the beginning and the end?</i>
09:40 - 10:20	Jerome Harrington : <i>Glass making, and myth making</i>
10:20 - 11:00	Michael Cable : <i>What the Siemens Brothers did for the Glass Industry</i>
Coffee am	
11:20 - 12:00	Colin Brain : <i>Mid-17th century improvements in glass technology</i>
12:00 - 12:45	Jonathan Cooke : <i>Time and Temperature - techniques of multiple layering in glass painting</i>
12:45 - 13:00	Jonathan Cooke : <i>Jonathan Cooke - Book Signing</i>
Lunch	
14:00 - 14:40	Oksana Kondratyeva : <i>Acid Etching Technique and Stained Glass: Art vs. Science</i>
14:40 - 15:20	Francisca Pulido Valente ¹ , Inês Coutinho ^{1,2} , Teresa Medici ^{1,2} , Márcia Vilarigues ^{*1,2} : <i>A collection of 17th – 18th century English glass goblets found in Casa dos Bicos (Lisbon, Portugal): analytical characterization and preservation</i>
15:20 - 16:00	Filomena Gallo ^{1*} , Tania Chinni ² , Alessandra Marcante ¹ , Alberta Silvestri ³ , Mariangela Vandini ² , Gianmario Molin ¹ : <i>Medieval glasses from north Adriatic area: local productions or Venetian importations?</i>
Coffee/Tea pm	
16:20 - 17:00	Francisca Pulido Valente ¹ , Inês Coutinho ^{1,2} , Teresa Medici ^{1,2} , Márcia Vilarigues ^{*1,2} : <i>A collection of 17th – 18th century English glass goblets found in Casa dos Bicos (Lisbon, Portugal): analytical characterization and preservation</i>
17:00 - 17:40	Ferdinand Drünert (a), Maria Kaparou (b), Eleni Palamara (b), Dimitrios Palles (a), Doris Möncke (c), Efstratios I. Kamitsos (a), Nikos Zacharias (b) (a) National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, 48 Vassileos Constantinou Ave., 11635 Athens, Greece (b) Laboratory of Archaeometry, Department of History, Archaeology and Cultural Resources Management, University of Peloponnese, Kalamata, Greece (c) Otto-Schott-Institute, Friedrich-Schiller-University Jena, Fraunhoferstr.6, 0743 Jena, Germany : <i>Creation of a borosilicate layer upon gilding of Mycenaean vitreous relief fragments vs. weathering-induced polymerization in Classic Hellenic vitreous samples - an experimental study</i>

