

## ICG 2010

PAPER ID	Type	Title	Authors
Sept. 20 - 8:00 - 19:00		TC Meetings/Registration/ICG Meetings	
14:00:00 - 19:00		TC Meetings and Varshneya's Glass Course	
19:15	Welcome	Dinner	
<b>Sept. 21 - 8:00 - 12:00 - Rooms A &amp; B &amp; Tech</b>			
8:00 - 12:00	Plenary	Opening Ceremony Exec. Secret. (Belmonte) ICG2010 President (Zanotto) ICG President (Nicoletti) Award Presentations (Weyl, Gottardi, President's & Turner) Weyl talk (J. Mauro) Gottardi Talk (M. J. Pascual) Round Table: Glass, Energy and Environment Glass - A Key Material for Renewable Energy Flat glass for buildings: energy efficiency and opportunities Energy efficiency improvement potentials in glass manufacturing	Chairman - K.Bange R. Langfeld - Schott AG D. Roux - Saint Gobain R. Beerkens - TNO
<b>Lunch 12:15 - 14:00</b>			
<b>Sept. 21 - 14:00 - 16:00 Room A</b>			
14:00 -16:00		Structure (Chairman: J. Shackelford)	
364	Oral	STATISTICAL DESCRIPTORS FOR GLASS STRUCTURE	James Floyd Shackelford
385	Oral	Statistical description of glass network interconnectivity in calcium aluminosilicate glasses	Ralf Keding, et al.
117	Oral	Static and dynamic volume fluctuations in potassium silicate glass - MD study	Ondrej Gedeon, et al.
101	Oral	SPECTROSCOPIC PHENOMENON OF IR (0.7-2 MM) EMISSION OF POST-TRANSITION ELEMENTS IN DIFFERENT GLASSES	Evgeny F. Kustov, et al.
269	Oral	Structural analysis of bismuth zinc borate glasses using high energy X-ray diffraction and <sup>11</sup> B MAS NMR measurements	Yasuhiko Benino, et al.
49	Oral	CATION DISTRIBUTION IN MIXED-ALKALI PHOSPHATE GLASSES	Jefferson Esquina Tscuchida, et al.
104	Oral	Combination of advanced solid-state NMR and numerical simulation for the study of phosphate glass alteration	Nina Forler, et al.
312	Oral	Application of atmospheric microwave plasma to glass surface analysis, surface conditioning and coating	Monika Willert-Porada, et al.
<b>Break 16:15 - 16:30</b>			
<b>Sept. 21 - 14:00 - 16:00 Room B</b>			
14:00 -16:00		Non-oxide & sol-gel (Chairman: K.Richardson)	
116	Invited	Luminescence and amplified stimulated emission in quantum dot doped sol-gel waveguides	Alessandro Martucci
356	Oral	WRITING OF LITHIUM NIOBATE PATTERNS ON SOL-GEL DERIVED Li <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> FILM SURFACE BY LASER IRRADIATION	Tsuyoshi Honma, et al.
128	Oral	Structural chemistry of meso-macroporous functional Hexagonal Tungsten Oxide Based Electrochromic Devices.	Yahia Djaoued, et al.
58	Oral	Progress on the fabrication of on-chip, integrated chalcogenide glass (ChG)-based sensors	Kathleen Richardson, et. al.
390	Oral	Effect of CdS in bulk GeS <sub>2</sub> -Ga <sub>2</sub> S <sub>3</sub> -CdS chalcogenide glasses to third-order nonlinear optical properties by Z-scan method	Qiming Liu, et al.
352	Oral	Low-temperature extrusion molding of oxygen-free fluoride	Peter Baskov, et al.
63	Oral	THE SQUARE-WELL MODEL IN MEAN SPHERICAL APPROXIMATION AS A REFERENCE SYSTEM IN VARIATIONAL CALCULATIONS	Nikolay Dubinin, et al.
<b>Sept. 21 - 14:00 - 16:00 Room Tech.</b>			
<b>Education in glass (Chairman: J.Parker)</b>			
465	Invited	The future of glass education	J. Parker
493	Oral	Glass Education without Boundaries	Carlo G. Pantano
386	Oral	BRAZILIAN CERAMIC SOCIETY'S GLASS SCHOOL	Mauro Akerman, et al.
337	Oral	LECTURE ON KNOWLEDGE MANAGEMENT ON THE FLOOR OF THE GLASS INDUSTRY PLANT	Edison José Toporcov, et al.
490	Oral	Glass Research and Education in Brazil	Ana Candida M. Rodrigues, et al.
442	Oral	The School of Glass implementation: the tool to develop employees	F. Lopes
<i>Discussion of previous talks and synopsis</i>			
<b>Break (Courtesy Rip Refratários) 16:15 - 16:30</b>			
<b>General CTC Meeting (8-18)</b>			
<b>Poster session I</b>			

16	Poster	Polyphosphate coacervate glasses as a host for vitamin C encapsulation	Mauricio Antonio Pereira da Silva, et al.
32	Poster	Theory of pore formation in a "stretched" diopside glass: Generalized Gibbs approach	Juern W. P. Schmelzer, et al.
39	Poster	EVALUATION OF NOVEL STRONTIUM BIOACTIVE GLASS COATINGS	Matthew O'Donnell, et al.
46	Poster	STRESS INDUCED PORE FORMATION AND PHASE SELECTION IN A CRYSTALLIZING STRECHED GLASS	Vladimir M. Fokin, et al.
47	Poster	ELASTIC STRESSES IN CRYSTALLIZATION PROCESSES IN FINITE DOMAINS	Alexander S. Abyzov, et al.
52	Poster	MoZrO <sub>2</sub> – A new material for GME	Elisio Ferreira Neto
53	Poster	MOLYBDENUM GLASS TANK REINFORCEMENTS. – EXPERIENCES AND INSIGHTS	Elisio Ferreira Neto
54	Poster	Effect of 2SiO <sub>2</sub> /RE <sub>2</sub> O <sub>3</sub> substitution on the Structure, ionic conductivity and water solubility of a sodium borosilicate glass	Odile Majérus, et al.
64	Poster	FUEL COMBUSTION WITH SUPPLEMENTARY OXYGEN. IMPLICATIONS ON POLLUTING COMPONENTS OF THE COMBUSTION GASES.	Andreea David, Dorel Radu
66	Poster	DEFECTS INDUCED BY $\gamma$ - AND LASER BEAM IRRADIATION AND THERMAL BEHAVIOR OF SILVER NANOPARTICLES IN TELLURITE GLASSES	Júlia Maria Giehl, et al.
69	Poster	CHEMICAL STATE OF SILANOL GROUP IN SILICA PARTICLES STUDIED BY DIFFUSE REFLECTANCE INFRARED FOURIER TRANSFORM	Toshio Suzuki, et al.
70	Poster	CHEMICAL STATE ANALYSIS OF SULFUR IN GLASS BY MEANS OF CONVENTIONAL X-RAY FLUORESCENCE	Yuichi Suzuki, et al.
72	Poster	GREEN AND RED EMISSIONS IN TELLURITE GLASSES DOPED WITH ER <sub>3+</sub> /YB <sub>3+</sub> AND THE INFLUENCE OF METALLIC NANOPARTICLES	Carlos Taveira Amâncio, et al.
75	Poster	Er and Nd-doped yttrium aluminosilicate and yttrium aluminozirconate glasses	Anna Prnová, et al.
76	Poster	THERMODYNAMIC INSTABILITY NEAR THE GLASS TRANSFORMATION TEMPERATURE	Valery Kokshenev
77	Poster	EFFECTS OF GLASS FORMING HISTORIES ON THE CRYSTALLIZATION KINETIC OF THE 20Li <sub>2</sub> O-80TEO <sub>2</sub> GLASS	Eudes Borges Araújo, et al.
81	Poster	Bi-INCORPORATION EFFECTS IN GLASSY ARSENIC SELENIDES STUDIED WITH HIGH-RESOLUTION XPS	Sergey Kozyukhin, et al.
83	Poster	A LINK BETWEEN STRUCTURAL GLASSES AND SUPERCOOLED LIQUIDS: FIRST OBSERVATION OF THE TWO-LEVEL TUNNELING STATES VIA CONF	Valery Kokshenev
89	Poster	SIMULATION OF ULTRASHORT HEAT PULSES ON VITREOUS THIN PLATES - APPLICATION TO THE DETERMINATION OF DYNAMIC CONSTANTS	André Monteil, et al.
91	Poster	SUPERCONTINUUM GENERATION USING SMALL CORE PHOTONIC CRYSTAL FIBERS	Enver Fernandez Chillce, et al.
98	Poster	COMPOSITION AND TEMPERATURE DEPENDENCES OF ELASTIC PROPERTIES ON LITHIUM GERMANATE GLASSES	Kazuhiro Kaneda, et al.
99	Poster	INFLUENCE OF DOPING UPON THE STRUCTURE AND OPTICAL CHARACTERISTICS OF AMORPHOUS Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub>	Sergey Kozyukhin*, et al.
100	Poster	Surface shape reconstruction from reflection image of color striped pattern	Yoshiyuki Sonda, et al.
105	Poster	Structural features in multicomponent aluminosilicate glass-ceramics revealed by solid-state NMR	A. Ananthanarayanan, et al.
110	Poster	Phosphorous oxynitride glasses: properties, structure and their potential application as solid electrolytes	Nerea Mascaraque, et al.
111	Poster	INFLUENCE OF DOPANTS ON THE PROCESSES OF LOCAL INELASTICITY IN SELENIUM.	Alexander Gorshkov, et al.
112	Poster	SPECTROSCOPY OF CR <sub>3+</sub> , ND <sub>3+</sub> CO-DOPED BOROSILICATE GLASS: TOWARDS A SOLAR-ENERGY-PUMPED LASER GAIN MEDIUM	Mark Hughes, et al.
118	Poster	EFFECT OF NUCLEATING AGENT ON CRYSTALLIZATION PROCESS OF KINESCOPE GLASS CULLET	Manuela Reben, et al.
119	Poster	THE WEIGHT DECREASE OF GLASS PACKAGING USING VARIOUS METHODS BB, PB, NNPB AND HOT END COATING	Krzysztof Czarnacki, et al.
120	Poster	INVESTIGATION OF NICKEL SULPHIDE INCLUSIONS IN SODA LIME FLAT GLASS	Manuela Reben, et al.
121	Poster	DEPOSITION OF INORGANIC-ORGANIC, COLOR COATING ON GLASS; PHYSIC-CHEMICAL AND TECHNOLOGICAL ASPECTS	Maria Laczka, et al.
123	Poster	SOL-GEL BIOGLASS AS COMPONENT OF BIOCOMPOSITES	Justyna Kokoszka, et al.
124	Poster	RESIDUE FLAT GLASS: RECYCLING IN THE FORM OF FILLER IN ASPHALT MIXTURES	Vilany Santana Pereira, et al.
125	Poster	COORDINATION AND VALENCE STATE OF TRANSITION METAL IONS IN ALKALI BORATE GLASSES	Agnieszka Terczynska-Madej, et al.
129	Poster	EVOLUTION OF SCREW-CAPS CLOSURE FOR PHARMACEUTICAL GLASS CONTAINER	Sandra Balan Mendoza Jaime, et al.
133	Poster	PHYSICAL PROPERTIES AND STRUCTURE OF ALKALI BORO VANADATE GLASSES	Joseph North, et al.
134	Poster	EFFECT OF REFRACTIVE INDEX PROFILE ON BENDING INDUCED OPTICAL LOSS OF BEND-INSENSITIVE OPTICAL FIBER	Seongmin Ju, et al.
137	Poster	A METHOD TO MEASURE THE SURFACE VISCOSITY OF NANO-SCALE PARTICLES BY USING THE CYLINDER MODEL BASED ON THE VISCOUS SINTI	Long Shao, et al.
138	Poster	DESIGN OF NONLINEAR OPTICAL KNbO <sub>3</sub> BASED CRYSTALLIZED GLASSES AND CRYSTAL LINE PATTERNING	Keitaro Kioka, et al.
139	Poster	Crystallization and spectral analysis of Sm <sup>3+</sup> doped CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass ceramics	Peijing Tian, et al.
146	Poster	Effect of ZrO <sub>2</sub> on the Chemical Durability of Bismuth-based Glass	Catia Fredericci, et al.
148	Poster	INTERNAL RESIDUAL STRESSES IN SINTERED AND COMMERCIAL LOW EXPANSION Li <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> (LAS) GLASS-CERAMICS	Francisco C. Serbena, et al.
152	Poster	SINTERED LOW EXPANSION Li <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> (LAS) GLASS-CERAMIC	Viviane Oliveira Soares, et al.
155	Poster	STRUCTURE AND PROPERTIES OF COLOURED HYBRID MATERIALS	Katarzyna Cholewa-Kowalska, et al.
157	Poster	ON THE FORMATION OF A SECONDARY CRYSTALLINE PHASE IN BIOSILICATE®	Bruno Poletto Rodrigues, et al.
159	Poster	EFFECT OF BIOACTIVE GLASS MICRO AND NANOPARTICLES ON THE BEHAVIOR OF CEMETOBlasts CELLS	Sandhra Maria de Carvalho, et al.
160	Poster	IN VITRO BIOACTIVITY OF CHITOSAN-POLYVINYL ALCOHOL-BIOACTIVE GLASS COMPOSITE MEMBRANES	Luisa Lima Dias, et al.
161	Poster	Effect of high pressure in the Li <sub>2</sub> O.2SiO <sub>2</sub> mechanical properties	Silvio Buchner, et al.
162	Poster	EVALUATION OF IRON-PHOSPHATE GLASSES FOR SEALING APPLICATIONS	Signo Tadeu dos Reis, et al.
163	Poster	SYNTHESIS AND CHARACTERIZATION OF GLASS AND GLASSCERAMICS PRODUCED FROM "RED MUD"	Heveline Vieira, et al.
165	Poster	OPTICAL AND THERMOCHROMIC PROPERTIES OF BISMUTH BASED OXIDE GLASSES CONTAINING SILVER	Rauber D. Pereira, et al.
167	Poster	STRUCTURAL STUDY OF MIXED ALKALI BORATE GLASSES CONTAINING LEAD OXIDE	Juliana Mara Pinto de Almeida, et al.
168	Poster	ANALYTICAL SOLUTION FOR MODE-MISMATCHED THERMAL LENS SPECTROSCOPY WITH GLASS-AIR HEAT COUPLING	Luis Carlos Malacarne, et al.
170	Poster	THERMAL LENS AND INTERFEROMETRIC METHOD FOR GLASS TRANSITION AND THERMO PHYSICAL PROPERTIES MEASUREMENTS IN Nd <sub>2</sub> O <sub>3</sub> DO	Nelson Guilherme Castelli Astrath, et al.
171	Poster	MATERIAL CHARACTERIZATION WITH TOP-HAT CW LASER INDUCED THERMAL LENS AND THERMAL MIRROR TECHNIQUES	Francine Baesso Guimarães Astrath, et al.
172	Poster	HIDROXYCARBONATE APATITE (HCA) FORMATION ON BIOSILICATE®	Murilo Camuri Crovace, et al.
173	Poster	INDUCED CRYSTALLIZATION OF EULYTITE PHASE (Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> ) BELOW GLASS TRANSITION INTERVAL OF BISMUTH GERMANATE GLASSES	Seila Rojas de Souza, et al.

174	Poster	THE LOCAL STRUCTURE AND THE INFLUENCE OF CERIA ADDITION ON PROPERTIES OF BIMUTH GERMANATE GLASSES
178	Poster	CRYSTALLIZATION KINETICS AND ELECTRICAL CONDUCTIVITY OF $1\text{Na}_2\text{O}\cdot 2\text{CaO}\cdot 3\text{SiO}_2$ GLASSES WITH SMALL $\text{Li}_2\text{O}$ ADDITIONS
179	Poster	NEODYMIUM DOPED SILICALUMINATES THIN GLASSES PREPARED BY THE SOL-GEL ROUTE FOR USE IN LASER DENTISTRY
180	Poster	Femtosecond laser modification of $\text{BaO}\cdot\text{B}_2\text{O}_3\cdot\text{SiO}_2$ based glass
181	Poster	Recycling of waste vitreous of the type in soda-lime in manufacturing parts decorative crafts
189	Poster	HAFNIUM ENVIRONMENT IN LaBS AND ABS GLASSES FOR PLUTONIUM IMMOBILIZATION
190	Poster	MEASUREMENT OF LEACH RATES OF RADIONUCLIDES FROM VITREOUS WASTE FORMS IN A SOXHLET APPARATUS
192	Poster	Percolative Inward Diffusion in Iron-Bearing Diopside Glass-Ceramics
195	Poster	PREPARATION OF NOVEL TRANSPARENT GLASS-CERAMICS CONTAINING FLUORIDE CRYSTALS
196	Poster	QUANTUM EFFICIENCY OF $\text{Nd}^{3+}$ -DOPED GLASSES UNDER SUNLIGHT EXCITATION
197	Poster	GLASS-CERAMICS FROM INDUSTRIAL WASTES FROM EGYPT
200	Poster	FLAME AEROSOL NANOSTRUCTURED TITANIUM DIOXIDE FOR COATING: A CONTROL OF CRYSTALLITE SIZE AND FASE BY OXY-HYDROGEN FLAME

Seila Rojas de Souza, et al.  
 Tiago De Marchi Mosca, et al.  
 Fátima Roneiva Alves Fonseca, et al.  
 V.R. Mastelaro, et al.  
 Norma Maria Silva de Oliveira, et al.  
 Sergey. V. Stefanovsky, et al.  
 Alexander V. Ochkin, et al.  
 Morten M. Smedskjaer, et al.  
 Takenobu Suzuki, et al.  
 Takenobu Suzuki, et al.  
 Luisa Barbieri, et al.  
 MIRELLA NAGIB DE OLIVEIRA BOERY, et al.

**Sept. 22 - 8:00 - 9:45 - Room A**

**8:00 - 9:45**

**Structure & Crystallization TC3 & TC7 (Chairman: R.Müller)**

496	Invited	Structural role of nucleating elements (Zr, Ti and Ni) during glass nucleation: influence on physical properties
219	Oral	Atomic Modeling of Crystallization Process
73	Oral	EFFECT OF NEODYMIUM AND MOLYBDENUM ADDITION ON THE STRUCTURE AND CRYSTALLIZATION TENDENCY OF A $\text{SiO}_2\text{-Na}_2\text{O-CaO-Al}_2\text{O}_3\text{-B}_2\text{O}_3$
57	Oral	Multispectroscopic study of a rare-earth rich aluminoborosilicate glass with relationship to its crystallization properties
127	Oral	10-B NMR Studies of Borate Glasses and Crystals
34	Oral	STRUCTURAL ORDER PARAMETERS, RELAXATION AND CRYSTALLIZATION

L. Cormier  
 Akira Takada  
 N. Chouard, et al.  
 Daniel Caurant, et al.  
 Steve Feller, et al.  
 Juern W. P. Schmelzer, et al.

**Break - 15min.**

**Break 9:45 - 10:00**

**Structure & Properties TC 22 (Chairman: G. Callas)**

311	Invited	THE ENVIRONMENT OF TRANSITION ELEMENTS IN OXIDE GLASSES
218	Oral	Prediction of Structure-Property Relationship in Glasses based on Numerical Simulation
415	Oral	STRUCTURAL ROLE OF ZR AS A NUCLEATING AGENT IN SILICATE GLASSES
191	Oral	Network Topology and Diffusion in Soda Lime Borate Glass Systems
287	Oral	NEW RAMAN SCATTERING INVESTIGATIONS IN SILICA : RELAXATION MONITORING AT HIGH TEMPERATURES
289	Oral	Brillouin and Raman investigations in binary heavy alkali silicate glasses ( $\text{Rb}_2\text{O-SiO}_2$ and $\text{Cs}_2\text{O-SiO}_2$ )
329	Oral	INFRARED EMISSION SPECTROSCOPY OF SILICATE AND BORATE GLASSES UP TO 1 500°C
313	Oral	Spectroscopy of chromium in oxide glasses: local structure, redox states and thermal expansion

Laurence Galois, et al.  
 Akira Takada  
 Olivier Dargaud, et al.  
 Morten M. Smedskjaer, et al.  
 Maggy Dutreilh-Colas, et al.  
 Miriam Chligui, et al.  
 Cristiane N. Santos, et al.  
 Georges Calas, et al.

**Lunch**

**Lunch 12:15 - 14:00**

**14:00 - 16:15**

**Structure & Vibrations TC 26 (Chairman: B. Hehlen)**

37	Invited	Theory of vibrational excitations in glass
193	Oral	Nature of vibrational modes in simple silicate glasses
60	Oral	EQUIVALENCE OF THE BOSON PEAK IN GLASSES TO THE TRANSVERSE ACOUSTIC SINGULARITY OF CRYSTALS
154	Oral	The boson peak of silica and its relation with elastic properties
345	Oral	INFRARED SPECTROSCOPY BY EMISSION MEASUREMENT TO INVESTIGATE STRUCTURE AND DYNAMICS OF GLASSES
65	Oral	Hyper-Raman scattering: a powerful tool to probe structure in glasses
286	Oral	AMORPHOUS-TO-AMORPHOUS TRANSITIONS IN GERMANATE GLASSES BY THERMAL POLING-INDUCED PROTON INJECTION

Walter Schirmacher  
 Simona Ispas, et al.  
 Aleksand I. Chumakov, et al.  
 Benoit Rufflé, et al.  
 Domingos De Sousa Meneses, et al.  
 Guilhem Simon, et al.  
 Guillaume Guimbretiere, et al.

**Break - 15min.**

**Break 16:15 - 16:30**

**Sept. 22 - 8:00 - 9:45 - Room B**

**8:00 - 9:45**

**Optically active glasses (Chairman: L.C. Barbosa)**

204	Invited	NEW PHOTONICS GLASSES AND WAVEGUIDES FOR LIGHTWAVE PROCESSING
175	Oral	NEAR INFRARED BROADBAND LUMINESCENCE IN BISMUTH DOPED CHALCO-HALIDE GLASSES
236	Oral	BARIUM DOPING EFFECT ON THE LOCAL STRUCTURE AROUND ERBIUM IONS IN SILICA GLASS PREPARED BY CONTAINERLESS PROCESSING
242	Oral	Tb <sup>3+</sup> - and Ce <sup>3+</sup> -doped soda-zinc-aluminosilicate glasses for white light generation

Yasutake Ohishi  
 Yannick Ledemi, et al.  
 Atsunobu Masuno, et al.  
 Adolfo Speghini, et al.

**Break - 15min.**

**Break 9:45 - 10:00**

**10:00 - 12:15**

**Optically active glasses (Chairman: D. Krol)**

206	Invited	Active glass and ceramic materials for green photonics
176	Oral	CORRELATION BETWEEN THE REFRACTIVE INDEX CHANGE AND THE CRYSTALLIZATION KINETICS IN PHOTO-THERMO-REFRACTIVE GLASS
326	Oral	EFFECT OF DOSAGE AND THERMAL TREATMENT ON PHOTO-THERMO-REFRACTIVE GLASS CRYSTALLIZATION PROPERTIES
108	Oral	PRECIOUS METAL FUNCTIONALIZED SODA-LIME SILICATE GLASSES
381	Oral	Thermo-optical properties of soda lime silicate glasses doped with Erbium and Silver

Setsuhisa Tanabe  
 Julien Lumeau, et al.  
 Karima Chamma, et al.  
 Anne Simo, et al.  
 Maria José Valenzuela Bell, et al.

411	Oral	PHOTO-THERMO-REFRACTIVE GLASS CO-DOPED WITH Nd <sup>3+</sup> AS A NEW LASER MEDIUM	Larissa Glebova, et al.
<b>Lunch</b>		<b>Lunch 12:15 - 14:00</b>	
<b>14:00 - 16:15</b>		<b>Nastructured sol-gel TC 16 (Chairman: R. Almeida)</b>	
467	Invited	Multifunctionality on silica glass. Advanced nanostructured coatings	S. Ribeiro
150	Oral	NANOSTRUCTURED SiO <sub>2</sub> - TiO <sub>2</sub> FUNCTIONAL GLASS COATING WITH LOW EMISSIVITY PREPARED BY SOL-GEL	Maria Clara Gonçalves, et al.
199	Oral	Transition Metal Oxide Nanocomposite Thin Films on Glass	Nathan P. Mellott, et al.
210	Oral	Multifunctional nanocomposite coating from titanate nanosheets and semiconductor quantum dots	Alessandro Antonello, et al.
367	Oral	PREPARATION OF LAYERED DOUBLE HYDROXIDE NANO-CRYSTALS PRECIPITATED COATINGS BY THE SOL-GEL METHOD WITH HOT WATER TREATMENT	Kiyoharu Tadanaga, et al.
283	Oral	Meso-structured TiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> and SiO <sub>2</sub> -TiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> membranes prepared by EISA method for applications in PEMFC	Yolanda Castro, et al.
405	Oral	GROWTH OF SEMICONDUCTOR NANOPARTICLES NETWORK IN SOL-GEL MATRICES USING DIFFERENT LASER IRRADIATIONS.	Odile Cristini, et al.
67	Oral	Sol-gel preparation of hybrid electrolytes between glass and ionic liquid	Masayuki Nogami, et al.
<b>Break - 15min.</b>		<b>Break 16:15 - 16:30</b>	
		<b>Sept. 22 - 08:00 - 09:45 Room Tech.</b>	
<b>8:00 - 9:45</b>		<b>Fracture resistant glasses (Chairman: C.Kurkjian)</b>	
142	Invited	IMPROVING PRACTICAL GLASS STRENGTH: MYTHS AND REALITIES	Russell John Hand
61	Invited	Review of Chemical Strengthening of Glass: Lessons learned and yet to be learned	Arun K. Varshneya
331	Oral	Two-point Bend Studies of the Failure Characteristics of Glass	Zhongzhi Tang, et al.
71	Oral	MEASUREMENT OF ELASTIC AND RESIDUAL STRESSES AT INDENTS IN GLASSES	Charles R. Kurkjian, et al.
194	Oral	EFFECT OF THERMAL HISTORY ON INDENTATION-INDUCED DENSIFICATION OF GLASS	Satoshi Yoshida, et al.
<b>Break</b>		<b>Break 9:45 - 10:00</b>	
<b>10:00 - 12:15</b>		<b>Waste management TC 5 (Chairman: J.Marra)</b>	
169	Invited	Evaluating the Solubility and Homogeneity of Plutonium in an Alkali Borosilicate Glass	James C. Marra, et al.
151	Oral	DURABILITY OF A SIMULANT ILW GLASS IN A HIGH PH ENVIRONMENT	Claire Utton, et al.
149	Oral	REDOX CONTROL OF NUCLEAR GLASS	Olivier Pinet, et al.
188	Oral	SUMMARY OF COLD CRUCIBLE VITRIFICATION TESTS RESULTS WITH SAVANNAH RIVER SITE HIGH LEVEL WASTE SURROGATE	Sergey. V. Stefanovsky, et al.
164	Oral	Liquidus Temperature Round-Robin Testing for Waste Glasses	J.Marra, et al.
354	Oral	Thermal Properties of Iron-Phosphate Glasses for nuclear waste applications	Alexandre Pinheiro da Silva, et al.
<i>Discussion of previous talks and synopsis</i>			
<b>Lunch</b>		<b>Lunch 12:15 - 14:00</b>	
<b>14:00 - 16:15</b>		<b>Raw materials &amp; Refractories (Chairman: D. Koepsel)</b>	
13	Oral	Melting kinetics of normal glass forming raw material batches and pretreated batch	Hans van Limpt, et al.
131	Oral	TIN OXIDE ELECTRODES WITH ENHANCED CORROSION RESISTANCE	Julien Fourcade, et al.
315	Oral	CONTROL OF PARASITIC CURRENTS IN ELECTRICALLY HEATED COMPACT GLASS MELTING TANKS	Thorsten Gerdes, et al.
207	Oral	Modifying of refractories - ways to increase the service life	Rolf Weigand, et al.
48	Oral	NEW HIGH ZIRCONIA FUSED CAST MATERIAL HAVING A HIGH ELECTRICAL RESISTIVITY FOR ALKALI FREE GLASS MELTING	Isabelle CABODI, et al.
126	Oral	NEW REFRACTORY CRUCIFORM FOR IMPROVED ENERGY EFFICIENCY OF REGENERATIVE GLASS FURNACE	David Lechevalier, et al.
373	Oral	RISKS IN TESTING AND SELECTION OF FUSION-CAST AZS AND ALUMINA REFRACTORIES FOR GLASS MELTING FURNACES	Amul Gupta, et al.
<b>Break - 15min.</b>		<b>Break (Courtesy Rip Refratários) 16:15 - 16:30</b>	
		<b>CTC, Ste Co, Council Meeting (8-18h)</b>	
		<b>Poster session II</b>	
201	Poster	THE NUCLEATION OF SILVER NANOPARTICLES IN Tm <sup>3+</sup> DOPED GERMANATE GLASSES	Thiago Alexandre Alves de Assumpção, et al.
203	Poster	Microscopic relationship among properties of potassium germanate glasses	Seiichi Mamiya, et al.
205	Poster	FABRICATION OF LiMnxFe <sub>1-x</sub> PO <sub>4</sub> CRYSTALS VIA THE GLASS-CERAMIC ROUTE AND THEIR LITHIUM ION BATTERY PERFORMANCE	Tsuyoshi Honma, et al.
209	Poster	Structural relaxation and electrical conductivity in a window glass	Mariana Moura Machado, et al.
212	Poster	NANOINDENTATION BEHAVIORS OF SiO <sub>2</sub> -CaO-Na <sub>2</sub> O GLASSES WITH TiO <sub>2</sub> , ZrO <sub>2</sub> AND HfO <sub>2</sub> UNDER LOW TEMPERATURE	Mirabbos Hojamberdiev, et al.
214	Poster	CHARACTERIZATION OF Ce <sup>3+</sup> DOPED CAS GLASS FOR VISIBLE OPTICAL APPLICATION	Franciana Pedrochi, et al.
215	Poster	Ti <sup>3+</sup> DOPED CALCIUM ALUMINOSILICATE GLASSES FOR VISIBLE OPTICAL APPLICATIONS	Franciana Pedrochi, et al.
216	Poster	Nd <sup>3+</sup> DOPED CAS GLASSES: THERMO-OPTICAL AND LUMINESCENCE SPECTROSCOPY INVESTIGATION	Alysson Steimacher, et al.
217	Poster	SPECTROSCOPIC INVESTIGATION OF Yb <sup>3+</sup> -DOPED OH-FREE CALCIUM ALUMINOSILICATE GLASSES	Alysson Steimacher, et al.
223	Poster	MANUFACTURE OF OXIDE GLASSES USING LASER HEATING OF LEVITATING PELLETS	Prabesh Dulal, et al.
224	Poster	REDOX BEHAVIORS OF ANTIMONY OR ARSENIC IONS IN SILICATE MELTS BY DIFFERENTIAL PULSE VOLTAMMETRY	Satoshi Yoshida, et al.

225	Poster	INDENTATION- AND FRACTURE-INDUCED STRUCTURAL CHANGE OF SODIUM BOROSILICATE GLASSES	Yoshinori Nishikubo, et al.
226	Poster	EFFECTS OF LOW POWER LASER IRRADIATION ON LEAD AND BARIUM VANADATE GLASSES	Jason Hah, et al.
229	Poster	GLASS-CERAMICS CONTAINING NANO-CRYSTALLITES OF OXIDE SEMICONDUCTOR	Hirokazu Masai, et al.
233	Poster	Vitreous materials based on SiO <sub>2</sub> for photonic applications	Horatiu Niciu, et al.
240	Poster	HOLE TRAP CENTERS INDUCED BY X-RAY IRRADIATION ON Yb DOPED SILICA GLASSES	Edson Haruhico Sekiya, et al.
241	Poster	MOLECULAR DYNAMICS SIMULATION OF COLLISION-INDUCED DEVITRIFICATION	André Monteil, et al.
246	Poster	ENERGY TRANSFER IN Nd, Er CODOPED FLUORIDE GLASSES	Shintaro Mizuno, et al.
247	Poster	SYNTHESIS AND CHARACTERIZATION OF SILICON OXYCARBIDE NANOTUBES DERIVED FROM TEMPLATE-GUIDED ORGANOSILICATES	Sabrina G. Faria, et al.
249	Poster	EFFECT OF CRYSTALLISATION DEGREE ON HARDNESS OF GLASS-CERAMICS	Martin Jensen, et al.
251	Poster	XAFS STUDY ON LOCAL STRUCTURES OF IRON AND TITANIUM IONS IN BOROSILICATE GLASS	Shinsaku Nishida, et al.
253	Poster	THE STRUCTURE OF GLASSES BASED ON MOLYBDENUM AND POTASSIUM PHOSPHATE: A COMBINADE NMR, RAMAN SPECTROSCOPY AND X-RAY	Silvia Helena Santagneli, et al.
257	Poster	STRUCTURAL AND POROSITY STUDIES OF A COMPACTED GLASS	Reshma R. Desai, et al.
259	Poster	SALT WASTE ENCAPSULATION IN MECHANICAL ACTIVATED GLASS	Malgorzata Ciecinska, et al.
260	Poster	MECHANICAL ACTIVATION OF PHOSPHATE WASTE GLASSES	Pawel Stoch, et al.
264	Poster	STRUCTURAL STUDIES OF COATED AND COMPACTED GLASS MICROSPHERES	Wilson Vaz, et al.
265	Poster	DEGRADATION OF THE CZECH ART NOUVEAU GLASS MOSAIC	Dana Rohanova, et al.
266	Poster	CALCULATION OF PHYSICAL PROPERTIES IN ALKALI BOROSILICATE GLASSES BASED ON THE STRUCTURAL UNITS	Hiroyuki INOUE, et al.
270	Poster	CHARACTERISTICS OF THE SURFACE LAYERS OF INDUSTRIAL GLASSES, THERMOCHEMICALLY DEALKALIZED WITH ACID GASES	Gheorghe Duca, et al.
271	Poster	STUDY OF OPTICAL AND OPTO ELECTRONIC CONSTANTS OF POTASSIUM HALIDE SINGLE CRYSTAL	Ashok Verma, et al.
272	Poster	STRUCTURES OF SAMARIUM AND DYSPROSIUM BORATE GLASSES	Mathias B. Lawrence, et al.
273	Poster	Asbestos vitrification and valorization: glass-ceramics for thermal storage of solar energy	Julien Lambert, et al.
274	Poster	TEMPERATURE DEPENDENCE OF THE ABSORPTION SPECTRA OF Nd <sup>3+</sup> -CONTAINING SILICATE AND BORATE GLASS MELTS	Goro Aso, et al.
276	Poster	ORGANIC-INORGANIC HYBRID MATERIALS DOPED WITH RARE EARTH METALS IONS	Elzbieta Zelazowska, et al.
277	Poster	DIFFUSION TIME AND NON-RADIATIVE RELAXATION TIME IN LSCAS DOPED WITH BINARY OXIDE MIXTURES Eu AND V	Nilson Evilasio de Souza Filho, et al.
279	Poster	SOL-GEL DERIVED HYBRID MATERIALS DOPED WITH Eu <sup>3+</sup> AND Sm <sup>3+</sup> IONS	Elzbieta Zelazowska, et al.
280	Poster	ELECTRICAL AND STRUCTURAL CHARACTERIZATION OF Li <sub>1+x</sub> Al <sub>x</sub> Ti <sub>2-x</sub> (PO <sub>4</sub> ) <sub>3</sub> GLASS-CERAMICS	José Luis Narváez Semanate, et al.
281	Poster	RETHINKING OF GLASS TRANSITION TEMPERATURE DATA	Victor Semenovich Minaev, et al.
282	Poster	GLASS SINTERING: MODELING AND EXPERIMENTAL TEST OF PARTICLE SHAPE	Anne J. Barbosa, et al.
290	Poster	A Study of Bulk and Films of TeO <sub>2</sub> -ZnO glasses	R Raj Kumar, et al.
296	Poster	NONLOCAL EFFECTS ON THE LOW-TEMPERATURE BEHAVIOR OF NON-CRYSTALLINE SOLIDS	Nelson Guilherme Castelli Astrath, et al.
297	Poster	Gold Nanoparticles-based Glass Filters: Immobilization of Gold Nanorods on a Glass Surface	Denis Gentili, et al.
300	Poster	IN VITRO BEHAVIOUR OF HYBRID ZIRCONIA/ POLYCAPROLACTONE COMPOSITES	Michelina Catauro, et al.
301	Poster	PREPARATION AND CHARACTERIZATION OF GEOPOLYMERS AS HARD TISSUE PROSTHESES MATERIALS	Michelina Catauro, et al.
302	Poster	STRUCTURAL INVESTIGATIONS AND CRYSTALLIZATION TENDENCY OF SODA-LIME BOROSILICATE GLASSES CONTAINING LANTHANIDES: EFFECT	Daniel Caurant, et al.
303	Poster	PRODUCTION OF PHOTONIC CRYSTAL FIBER BASED ON HEAVY OXIDE GLASSES FOR NON LINEAR APPLICATIONS	Danilo Manzani, et al.
304	Poster	STRUCTURAL INVESTIGATION OF LEAD PHOSPHATE GLASSES BY NMR AND RAMAN SPECTROSCOPY	Danilo Manzani, et al.
305	Poster	WHITE LIGHT GENERATION IN RARE EARTH DOPED GERMANIUM BISMUTH TELLURITE GLASSES AND OPTICAL FIBERS	Yannick Ledemi, et al.
307	Poster	ON THE DIFFUSION COEFFICIENT FOR CRYSTAL GROWTH AND VISCOUS FLOW IN DIOPSIDE GLASS	Daniel Roberto Cassar, et al.
309	Poster	CHARACTERIZATION OF WHITLOCKITE IN 3CaO.P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> -MgO BIOACTIVE GLASS-CERAMIC SYSTEM.	Juliana Kelmy Macário de Faria Daguano, et al.
314	Poster	HYDROGEN STORAGE IN GLASS CAPILLARIES – H-DIFFUSION AND □ MECHANICAL STRENGTH	Peter Ried, Martin Gaber, et al.
317	Poster	Evaluation of the masking effect of opaque feldspatic ceramics for metal ceramic restorations	Washington Steagall Junior, et al.
318	Poster	ELASTIC MODULI OF BIOGLASS AND BIOACTIVE GLASS-CERAMIC OF THE 3CaO.P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> -MgO SYSTEM.	Juliana Kelmy Macário de Faria Daguano, et al.
319	Poster	LUMINESCENCE AT 1550nm IN Yb <sup>3+</sup> -Er <sup>3+</sup> CO-DOPED CALCIUM ALUMINOSILICATE GLASSES	Marcio José Barboza, et al.
320	Poster	MECHANISMS OF OPTICAL BLEACHING OF SILVER CONTAINING PARTICLES IN PHOTO-THERMO-REFRACTIVE GLASS	Julien Lumeau, et al.
322	Poster	LUMINESCENCE AND THERMO-OPTICAL PROPERTIES OF CALCIUM ALUMINOSILICATE GLASSES DOPED WITH Er <sub>2</sub> O <sub>3</sub>	Aline Milan Farias, et al.
327	Poster	STRUCTURAL CHANGES BETWEEN GLASS AND MELT: THE WINDOW GLASS	Laurent Cormier, et al.
328	Poster	Photonic Crystal Fibers for generation of non-linear optical effects in the infrared	M. El-Amraoui, et al.
332	Poster	CONTROL OF ULTRAVIOLET TRANSPARENCY OF SILICA GLASS SYNTHESIZED BY VAPOR-PHASE METHOD	Juliana Santiago dos Santos, et al.
333	Poster	PHOTOLUMINESCENCE EMISSION IN UNDOPED LEAD OXIFLUOROBORATE GLASSES	José Ezequiel De Souza, et al.
334	Poster	WAVEGUIDES AMPLIFIERS OF ERBIUM DOPED GEO <sub>2</sub> -PBO-GA <sub>2</sub> O <sub>3</sub> GLASSES WRITTEN WITH FEMTOSECOND LASER	Davinson M. da Silva, et al.
336	Poster	WINDSHIELD ARMOR WITH COMPLEX GEOMETRY	Diniz Pereira Gonçalves, et al.
339	Poster	INFLUENCE OF ALKALINE EARTH ON THE STRUCTURE OF ALUMINATE GLASSES.	Marina LICHERON, et al.
340	Poster	SYNTHESIS AND STRUCTURE OF NEW SrO-Y <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> GLASSES	Marina LICHERON, et al.
347	Poster	TEMPERATURE DEPENDENCY OF THE SIMULTANEOUS REMOVAL BEHAVIOR OF SO <sub>x</sub> , HCL AND B <sub>2</sub> O <sub>3</sub> BY CA(OH) <sub>2</sub> IN THE EXHAUST GAS FROM TH	Ryota Ando, et al.
351	Poster	RECYCLING OF THE WASTE GLASS TO THE ART	Assoc. Prof. Dr. Sureyya OSKAY
353	Poster	CATALYTIC PROPERTIES OF TITANIUM AND TITANIUM-SILICON OXIDE LAYERS PREPARED BY SOL-GEL METHOD	Marek Nocun, et al.
355	Poster	DETERMINATION OF MOBILITY AND CHARGE CARRIERS CONCENTRATION FROM IONIC CONDUCTIVITY DATA IN SILVER IODIDE / SILVER PHOSPH	Marcio Luis Ferreira Nascimento, et al.

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17:30

Poster STRUCTURE OF SILICO-PHOSPHATE GLASSES STUDIED BY MAS NMR AND FTIR METHODS

Maciej Sitarz , et al.

**Varshneya's Glass Course**

**Sept. 23 - 8:00 - 9:45 - Room A**

**8:00 - 9:45**

**Tg & Relaxation (Chairman: J. Mauro)**

130 Invited The landscape view of sub-Tg relaxation in liquids and glasses  
371 Oral POLYAMORPHISM AND THE UNIVERSALLITY OF LIQUID-LIQUID CRITICAL POINTS IN THE SUPERCOOLED STATE  
198 Oral TWINKLING FRACTALS AND GLASS TRANSITION IN AMORPHOUS OXIDES  
262 Oral NEW VIEW TO THE GLASS TRANSITION  
230 Oral Influence of Residual Stress on Color Generation of Gold Ruby Glass

Prabhat K Gupta  
George Neville Greaves, et al.  
Michael Ojovan  
Viktor Semenovich Minaev  
Tepiwan Jitwatcharakomol, et al.

**Break**

**Break 9:45 - 10:00**

**10:00 - 12:15**

**Thermo & Optical Properties (Chairman: R. Brow)**

298 Invited Thermodynamic modeling of the initial and final stages of glass corrosion  
153 Oral SURFACE FLUORINATION EFFECT ON CHEMICAL DURABILITY OF PHOSPHATE GLASS  
275 Oral ROLES OF NON-BRIDGING OXYGEN AND FREE VOLUME ON THE MILLING-INDUCED ENTHALPY INCREASE IN SIMPLE SILICATE GLASSES  
202 Oral Thermodynamic mixing properties of liquids in the system Na<sub>2</sub>O-SiO<sub>2</sub>  
231 Oral Mixed rare earth oxides in B<sub>2</sub>O<sub>3</sub>-La<sub>2</sub>O<sub>3</sub> based glasses  
256 Oral THERMAL DEPENDANCE OF SHEET RESISTANCE OF FTO-COATED FILMS ON GLASS  
84 Oral PROPERTIES OF ZINC SILICATE GLASSES AND MELTS  
254 Oral Optical Properties of nanoporous TiO<sub>2</sub> thin films on glass using different pore-forming agents

Reinhard Conradt  
Yuki Kondo, et al.  
Jun Matsuoka, et al.  
Toru Sugawara, et al.  
Satoru Tomeno, et al.  
Aneta Flejszar, et al.  
Doris Ehart, et al.  
Anja Matthias, et al.

**Lunch**

**Lunch 12:15 - 14:00**

**Sept. 23 - 8:00 - 9:45 - Room B**

**8:00 - 9:45**

**Glass-Ceramics TC 7 (Chairman: C.Russel)**

79 Invited Surface or internal nucleation and crystallization of glass-ceramics  
494 Oral Overview of Glass-Ceramics: Fundamentals and Applications  
392 Oral INTERNALLY NUCLEATED ALKALI SULFATE GLASS CERAMICS  
252 Oral Effect of lanthanide ions on the crystallisation of oxyfluoride nano-glassceramics. Photonic properties.  
308 Oral DISSOLUTION OF ALUMINA, SINTERING AND CRYSTALLIZATION IN GLASS CERAMIC COMPOSITES FOR LTCC APPLICATIONS  
316 Oral CRYSTALLIZATION KINETICS OF A 16.9Li<sub>2</sub>O-5.0ZrO<sub>2</sub>-65.1SiO<sub>2</sub>-8.6Al<sub>2</sub>O<sub>3</sub> GLASS-CERAMIC

Wolfram Höland  
I. Cornejo  
Lothar Wondraczek  
Araceli Pablos-Martin, et al.  
Stefan Reinsch, et al.  
Oscar Rubem Klegues Montedo, et al.

**Break - 15min.**

**Break 9:45 - 10:00**

**10:00 - 12:15**

**Glass-Ceramics TC7 (Chairman: J. Deubener)**

141 Oral Lithium iron phosphate glass-ceramic powder for rechargeable lithium-ion battery  
132 Oral GLASS-TO-METAL SEALS WITH TITANIUM AND Ti-6Al-4V ALLOY  
143 Oral OXIDE GLASS CERAMICS FOR SCINTILLATING MATERIALS  
285 Oral HT-XRD STUDY OF THE EARLY STAGE OF THE CRYSTALLIZATION PROCESS IN LITHIUM ALUMOSILICATE GLASS-CERAMICS  
295 Oral CRYSTALLIZATION OF LITHIUM IRON PHOSPHATE GLASSES FOR LITHIUM ION BATTERIES  
403 Oral SiO<sub>2</sub>-SnO<sub>2</sub> GLASS-CERAMIC PLANAR WAVEGUIDES DOPED BY RARE-EARTH ELABORATED BY THE SOL-GEL PROCESS  
406 Oral Preparation and Characterization of Lead Tungsten Fluorophosphate Glass-Ceramics  
288 Oral Effect of Ceramizing Treatment on Crystal Morphology and Properties of Spinel (MgAl<sub>2</sub>O<sub>4</sub>) nano glass-ceramic composites  
97 Oral DETERMINATION OF THE CRYSTAL NUCLEATION RATES IN □ GLASSES FROM DTA – A CORRECTION

Akihiko Sakamoto, et al.  
Brian Metcalfe, et al.  
Mathieu Allix, et al.  
Martina Dressler, et al.  
Kenta Nagamine, et al.  
Christophe Kinowski, et al.  
Roger Gomes Fernandes, et al.  
A.Molla  
ALUISIO ALVES CABRAL JÚNIOR, et al.

**Lunch**

**Lunch 12:15 - 14:00**

**Sept. 23 - 8:00 - 9:45 - Room Tech.**

**8:00 - 9:45**

**Optical Properties (Chairman: Y.Messaddeq)**

147 Oral INFLUENCE OF ANTIMONY ION ON COLORATION OF OPTICAL GLASS  
87 Oral Structure and properties of strontium niobium phosphate glasses  
391 Oral OPTICAL AND SPECTROSCOPIC PROPERTIES OF SODA LIME GLASSES DOPED WITH ERBIUM AND SILVER  
350 Oral PLASMON RESONANCE OF NOBLE METALS NANOPARTICLES IN GLASSES AND RAMAN SCATTERING  
341 Oral SILICATE GLASS CHEMISTRY BEHIND WAVEGUIDE AMPLIFIERS DEVELOPMENT  
343 Oral Experimental survey of the solar transmittance, environmental and mechanical durability of commercial soda-lime-silica glasses for solar energy applications  
424 Oral SYNTHESIS AND SPECTROSCOPY OF THE TETRABORATE GLASSES, DOPED WITH TRANSITIONAL ELEMENTS

Satoko Konoshita, et al.  
Hsi-wen Yang, et al.  
Zélia Maria Da Costa, et al.  
Eric Nardou, et al.  
Martin Mika, et al.  
Joachim Deubener, et al.  
Bohdan Padlyak, et al.

**Break - 15min.**

**Break 9:45 - 10:00**

**10:00 - 12:15**

**Bubbles TC14 & 21 (Chairman: D.Koepsel)**

62 Invited Mathematical Model of Sulfate Fining in a Glass Tank Furnace  
94 Oral MATHEMATICAL MODELS OF GLASS MELT REFINING  
235 Oral An Empirical Multi Gas Change Model for Bubble in Soda Lime Silicate Glass

Kenji Oda, et al.  
Jaroslav Klouzek, et al.  
Shingo Urata, et al.

15	Oral	Mass transfer of a rising bubble in a molten glass	
95	Oral	SPACE BUBBLE REMOVAL AS AN INDUSTRIAL PROCESS	
393	Oral	ICG TC21 MODELING OF GLASS MELTING PROCESSES HOW RELIABLE AND VALIDATED SIMULATION TOOLS CAN HELP TO IMPROVE GLASS MELT	
357	Oral	MODELING OF THE BEHAVIOUR OF A SINGLE BUBBLE IN A GLASS MELT	

Franck Pigeonneau  
Lubomir Nemecek, et al.  
Erik H. P.H. Muijsenberg  
Detlef Koepsel

*Discussion of previous talks and synopsis*

**Lunch**

**Lunch 12:15 - 14:00**

**Congress tour to Salvador**

**Sept. 24 - 8:00 - 9:45 - Room A**

**8:00 - 9:45**

**Glass Formation (Chairman: J.Schmelzer)**

363	Oral	Test of stability parameters with Li2O-B2O3 glasses from reluctant to good glass forming compositions	
335	Oral	STUDY OF THE CRYSTALLIZATION MECHANISM OF SILICA-TITANIA BINARY SYSTEM FOR HIGH REFRACTIVE INDEX GLASS PRODUCTION	
344	Oral	GLASS FORMATION AND PROPERTIES OF GLASSES BASED ON THE SYSTEM LA2O3-TIO2 BY CONTAINERLESS PROCESSING	
421	Oral	THE INVESTIGATION OF ANTEMELTING ON HYDRATED ORGANIC GLASS FORMING SOLUTIONS	
485	Oral	ALTERNATIVE ROUTE TO PRODUCE HIGH ALKALI-PHOSPHATE GLASSES THROUGH NITRIDATION	

Eduardo Bellini Ferreira, et al.  
Eduardo Ono, et al.  
Hiroyuki Inoue, et al.  
Wanderson Marinho de Abreu, et al.  
Nerea Mascaraque, et al.

**Break - 15min.**

**Break 9:45 - 10:00**

**10:00 - 12:15**

**New Functional (Chairman: B. Aitken)**

44	Invited	NEW FUNCTIONALITIES IN GLASS VIA FEMTOSECOND LASER WRITING OF MICRO AND NANO STRUCTURES	
365	Oral	Femtosecond laser modification dynamics in fused silica	
255	Oral	Precipitation of Ag Nanoparticles on KPO3-WO3 glass system via Thermal Treatment	
103	Oral	New extrinsic self-healing concept for glassy materials	
102	Oral	IN SITU HEALING TECHNOLOGY FOR SOLID OXIDE FUEL CELLS	
85	Oral	GLASS-CRYSTAL TRANSITION IN Ge-Sb-Te PHASE CHANGE MATERIALS UNDER MULTIPLE THERMAL CYCLING AND ANNEALING	
366	Oral	MAGNETO-OPTIC EFFECTS IN GERMANO-SILICA GLASS FIBERS DOPED WITH CADMIUM SELENIDE QUANTUM DOTS	

Denise M. Krol  
Jonathan J. Witcher, et al.  
Silvia Helena Santagneli, et al.  
Daniel Coillot, et al.  
François Olivier MÉAR, et al.  
Sergey Kozyukhin, et al.  
Pramod R. Watekar, et al.

**Lunch**

**Lunch 12:15 - 14:00**

**14:00 - 16:15**

**Crystallization (Chairman: E. D. Zanotto)**

376	Oral	Studies on Surface Crystallization Performed by Electron Backscatter Diffraction	
375	Oral	THE MECHANISM OF NANOCRYSTALLIZATION IN EARTH ALKALINE FLUORIDE SYSTEMS	
220	Oral	PECULIAR CRYSTAL GROWTH AND MORPHOLOGY OF FERROELASTIC CRYSTALS IN RARE EARTH MOLYBDATE GLASSES.	
185	Oral	INELASTIC LIGHT SCATTERING OF OXIDE GLASSES DURING HEATING/CRYSTALLIZATION PROCESS	
323	Oral	Structure and role of titanium as nucleating agent in an aluminosilicate glass	
310	Oral	DENDRITIC CRYSTALLIZATION IN LEAD OXIFLUOROBORATE GLASSES BELOW THE GLASS TRANSITION TEMPERATURE	
412	Oral	PHASE SEPARATION IN 0.45SIO2 0.45MGO 0.1(3CAO.P2O5) GLASS INVESTIGATED BY TEM, SEM AND AFM	
324	Oral	Crystallization of GeAsTe Bulk Glass and Thin Films	
9	Oral	Adiabatic Nucleation in Devitrifying "Fragile" Oxide Glasses	

Wolfgang Wisniewski, et al.  
Christian Bocker, et al.  
Futoshi Suzuki, et al.  
Yoshihiro Takahashi, et al.  
Laurent Cormier, et al.  
José Ezequiel De Souza, et al.  
Carlos Manuel Gomes de Araújo Queiroz  
Bruce Aitken, et al.  
Erich Meyer, et al.

**Break - 15min.**

**Break 16:15 - 16:30**

**Sept. 24 - 8:00 - 9:45 - Room B**

**8:00 - 9:45**

**Bio Glasses TC 4 (Chairman: J.Jones)**

396	Invited	Solid State NMR of Bioglasses - New Techniques and Applications	
92	Oral	Mechanisms of apatite crystallization in dental glass-ceramics	
248	Oral	SURFACE MODIFICATION OF FERRIMAGNETIC GLASS-CERAMIC PARTICLES FOR MAGNETIC DRUG TARGETING	
245	Oral	SURFACE FUNCTIONALIZATION OF BIOACTIVE GLASSES WITH ALKALINE PHOSPHATASE	
145	Oral	SOLUBLE PHOSPHATE GLASSES FOR BIOMEDICAL APPLICATIONS. DISSOLUTION STUDIES AND FIBRES PRODUCTION	
284	Oral	CHEMICAL FACTORS BEHIND BIOACTIVITY OF GLASSES	

Mark E Smith  
Wolfram Höland, et al.  
Oana Bretcanu, et al.  
Enrica Verné, et al.  
Chiara Vitale-Brovarone, et al.  
Leena Hupa, et al.

**Break - 15min.**

**Break 9:45 - 10:00**

**10:00 - 12:15**

**Bio Glasses TC 4 (Chairman: E. Verné)**

400	Invited	Bioactive glass and hybrid scaffolds for bone regeneration	
291	Oral	DISSOLUTION KINETICS OF BIOACTIVE GLASSES BY CONTINUOUS MEASUREMENT	
122	Oral	PROCESSING OF BONE TISSUE ENGINEERING GLASS-CERAMIC SCAFFOLDS WITH ADJUSTABLE STRENGTH AND BIOACTIVE PROPERTIES	
414	Oral	THE INTERACTION OF DENSIFICATION AND CRYSTALLISATION OF 45S5 BIOGLASS® POWDER FOR FABRICATION OF TISSUE SCAFFOLDS	
156	Oral	MONOLITHIC GLASS BONE SCAFFOLDS WITH DUAL NANO/MACRO POROSITY	
38	Oral	STRONTIUM SUBSTITUTED BIOACTIVE GLASSES: FROM CONCEPT TO IN VIVO DEMONSTRATION	
292	Oral	3D fabrication of bioactive glass implants	

Julian R Jones  
Susanne Fagerlund, et al.  
Chiara Vitale-Brovarone, et al.  
L. Wondraczek, et al.  
Yuliya Vueva, et al.  
Matthew O'Donnell, et al.  
Robert Meszaros, et al.

Discussion of previous talks and synopsis

Lunch 12:15 - 14:00

Lunch  
14:00 - 16:15

Miscellaneous Properties (Chairman: M. Baesso)

221	Invited	Glasses at Ultra-low Temperatures: Interplay of Atomic Tunneling Systems and Nuclear Magnetic Moments
68	Oral	Gas permeation through Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glasses containing metal ions
239	Oral	COMPARISON OF RESIDUAL STRESS AROUND VICKERS INDENTATION IN VARIOUS GLASS COMPOSITIONS BY USING BIREFRINGENCE IMAGING TECHNIQUE
261	Oral	SHEET GLASS STRENGTH LEVELS, THERMOCHEMICALLY TREATED WITH DIFLUORODICHLOROMETHANE
299	Oral	AFM STUDIES OF THE LIMIT OF ELASTICITY IN SILICA GLASS
78	Oral	SILICA ELASTIC ANOMALY AND HIGH PRESSURE EXPERIMENTS
56	Oral	FABRICATION OF AMORPHOUS ARSENIC-SULPHIDE ALLOYS BY ON-AXIS CONTINUOUS-WAVE LASER DEPOSITION
232	Oral	STRUCTURAL AND PHYSICAL PROPERTIES OF GEXASYSE1-X-Y GLASSES WITH THE SAME MEAN COORDINATION NUMBER

Christian Enss  
Masayuki Nogami, et al.  
Yoshinari Kato, et al.  
Vasilii Sharagov, et al.  
G. Pallares, et al.  
Bernard Champagnon, et al.  
J.M. González-Leal, et al.  
Rong-Ping Wang\*, et al.

Break - 15min.

Break 16:15 - 16:30

Sept. 24 - 8:00 - 9:45 - Room Tech.

8:00 - 9:45

New Applications of glass (Chairman: J.Martinelli)

237	Oral	ULTRA THIN GLASS SHEET: PROPERTIES AND POTENTIAL APPLICATIONS
93	Oral	BEND INSENSITIVE PHOTONIC CRYSTAL FIBERS
43	Oral	GLASS INDUSTRY OPPORTUNITIES & CHALLENGES IN THE COMING YEARS
382	Oral	HIGH PURITY TeO <sub>2</sub> -WO <sub>3</sub> -(La <sub>2</sub> O <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> ) GLASSES FOR FIBER-OPTICS
55	Oral	Glass fiber based catalysts: science and industrial application
362	Oral	Electromagnetic Wave Absorption Properties of Surface-Modified Glass Fabric Reinforcements

Katsutoshi Fujiwara  
Enver Fernandez Chillcce, et al.  
Jorma Vitkala, et al.  
V.V. Dorofeev, et al.  
Bair S. Bal'zhinimaev  
Goksu Gurer, et al.

Break - 15min.

Break 9:45 - 10:00

Glass Meeting and Forming (Chairman: R.Beerkens)

495	Invited	PROGRESS AND PROSPECT OF FLOAT PROCESS TECHNOLOGY
114	Oral	Thermal Contact Resistance At The Glass-Mold Interface In A Container Forming Process
208	Oral	LUBRICANTS – A SIMPLE WAY FOR SURFACE IMPROVEMENT OF □ GLASS
250	Oral	ORIGIN OF INHOMOGENEITY IN GLASS MELTS
228	Oral	PEAK IDENTIFICATION IN VOLTAMMETRY FOR SULFATE DOPED GLASS MELTS
278	Oral	EXPERIMENTAL SET UP DEDICATED TO GLASS FORMING
306	Oral	ELECTROMAGNETICALLY ENHANCED FLOW IN A SPECIAL MELTER - PHYSICAL MODELING, NUMERICAL SIMULATION AND HANDS-ON EXPERIENCE
420	Oral	MICRO THROUGH HOLE FABRICATION PROCESS FOR GLASS SUBSTRATE

Toru Kamihori  
Raevon M. Pulliam, et al.  
Heiko Hessenkemper, et al.  
Martin Jensen, et al.  
Yasushi Kii, et al.  
Laetitia SOUDRE, et al.  
Uwe Krieger, et al.  
Junji Kurachi, et al.

Lunch

Lunch 12:15 - 14:00

14:00 - 16:15

Environment and Sustainability (Chairman: F. Nicoletti)

41	Oral	Investigations on Na <sub>2</sub> O-H <sub>2</sub> O-SO <sub>2</sub> -CO <sub>2</sub> -containing flue gases from glass melters
177	Oral	Variety of Programs Underway Through Glass Manufacturing Industry Council to Reduce Energy and Emissions in the Production of Major Glass Types.
398	Oral	CHARACTERIZATION OF ASHES FROM INCINERATION OF CHROMIUM-TANNED LEATHER SHAVINGS AND THEIR APPLICATION AS COLORANT IN SC
74	Oral	APPLICATIONS OF HYBRID AIR-FUEL/OXY-FUEL GLASS MELTING TECHNOLOGY
115	Oral	New solutions for valorisation of glassy residues produced by municipal waste incinerators
211	Oral	Energy Efficiency Simulations Using Fully Coupled and Controlled Regenerative Furnace Model
457	Oral	Down converting coating based on ZnS:Mn nanoparticles embedded in sol-gel or polymer matrix

A. Neumann, et al.  
Michael Greenman  
Diego Mendes, et al.  
Edson E. Basilio, et al.  
Hreglich Sandro, et al.  
Miroslav Trochta  
Marta Dai Prè, et al.

Michael Greenman - Usable Glass Strength Coalition

Break - 15min.

Break 16:15 - 16:30

Poster Session III

360	Poster	Test of stability parameters with Li <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> glasses from reluctant to good glass forming compositions
368	Poster	EU <sup>3+</sup> DOPED PHOSPHOTUNGSTATE AND PHOSPHATE/CARBOXY-METHYL-CELLULOSE LOW TEMPERATURE GLASSES
370	Poster	USING ZnO AND Er <sub>2</sub> O <sub>3</sub> AS DECOLORANTS IN THE MANUFACTURE OF TABLEWARE
372	Poster	ON FRAGILE, MODERATE, STRONG AND 'SUPERSTRONG' SILICA □ GLASS TYPES
379	Poster	GLASS FORMATION AND STRUCTURE OF Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> -NaF SYSTEM
380	Poster	EFFECT OF FLUORIDE ON THE PHYSICO-CHEMICAL PROPERTIES, □ CRYSTALLIZATION PROCESSES AND GLASSFORMATION OF THE □ BaO-B <sub>2</sub> O <sub>3</sub> -
383	Poster	PRODUCTION AND PROPERTIES OF HIGH-PURITY TeO <sub>2</sub> -ZnO-Na <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> AND TeO <sub>2</sub> -WO <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> -MoO <sub>3</sub> GLASSES
384	Poster	Rare Earth Doped Sol-Gel Nano-Glass Ceramics: Upconversion Fluorescence Study
387	Poster	OPTICAL AND STRUCTURAL PROPERTIES OF SILVER NANOPARTICLES IN ALUMINOSILICATE GLASSES
388	Poster	Recent Advances in Liquid and Glassy Dynamics
389	Poster	NEW TESTS OF SINTER-CRYSTALLIZATION OF SPHERICAL DIOPSIDE GLASS PARTICLES
395	Poster	Production of Silica Aerogel from Rice Hulls for Dielectric Application

Eduardo Bellini Ferreira, et al.  
Anne J. Barbosa, et al.  
Noel Nóbrega Pinto, et al.  
Marcio Luis Ferreira Nascimento  
Lusine A. Gasparyan, Nikolay B. Knyazyan  
Karen Nalbandyan, et al.  
A.N. Moiseev, et al.  
Luciano Avallone Bueno, et al.  
Zélia Maria Da Costa, et al.  
John C. Mauro  
Raphael Midea Cuccovia Vasconcelos Reis, et al.  
José da Silva Junior, et al.

402	Poster	THE INFLUENCE OF ELECTROMAGNETIC FIELDS ON THE MECHANICAL PROPERTIES OF INDUSTRIAL GLASSES	Vasilii Sharagov, et al.
407	Poster	THICKNESS DEPENDENCE OF THE PROPERTIES OF MAGNETRON SPUTTERED INDIUM-TIN OXIDE THIN FILMS	Larissa Rodrigues Damiani, et al.
408	Poster	PERFORMANCE ANALYSIS OF AUTOMOTIVE LAMINATED GLASSES	Brunno Spinnelli Pimentel, et al.
409	Poster	DETERMINATION OF LIGHT ABSORPTION COEFFICIENT AND INTERNAL DIFFUSE REFLECTANCE OF A DENTAL PORCELAIN BY TRANSMITTANCE M	Humberto Naoyuki Yoshimura, et al.
416	Poster	Preparation of Bi-Sb-Te glasses and study of their some thermal and physical properties	Mônica A. S. Alencar, et al.
417	Poster	Analysis of the sickle cell phase transitions using differential scanning calorimetry (DSC)	Antonio V Cardoso, et al.
418	Poster	Phase transitions of the mussel adhesive structures (byssus and plaque) studied by differential scanning calorimetry (DSC)	Antonio V Cardoso, et al.
419	Poster	PHOTO-THERMO-REFRACTIVE GLASS FOR THICK VOLUME HOLOGRAMS	Larissa Glebova, et al.
422	Poster	GLASSES AND GLASS-CERAMICS BASED ON TEO <sub>2</sub> -WO <sub>3</sub>	Fabia Castro Cassanjes, et al.
423	Poster	NUCLEATION OF ZIRCONIA IN A MAS GLASS-CERAMIC	Olivier Dargaud, et al.
425	Poster	NANOSTRUCTURE AND COMPOSITION ANALYSIS OF FERRIMAGNETIC NANOCRYSTALS PRECIPITATED IN OXIDE GLASSES BY ASAXS	Armin Hoell, et al.
426	Poster	Near and mid-infrared luminescence Ge-Sb-(Se,Te) glasses doped with rare earth ions	Bozena Frumarova, et al.
430	Poster	LITHIUM BOROPHOSPHATE GLASSES: AN EXAMPLE OF THE MIXED GLASS FORMER EFFECT	Bérangère Raguénat, et al.
431	Poster	Nanotribological study using molecular dynamics simulations of binary cu-zr bulk metallic glass	Cláudio José Da Silva, et al.
432	Poster	Micro-size Tapered silica fibers for sensing applications	Enver F. Chillce, et al.
433	Poster	Effects of P <sub>2</sub> O <sub>5</sub> content on Microstructure and Mechanical Properties of Lithium Disilicate Glass-ceramics	Atiar Rahaman Molla, et al.
434	Poster	Characterization and Thermal Properties of JSC-1A Lunar Soil Simulant	Signo T. Reis, et al.
435	Poster	Cadmium Selenide / Zinc Sulfide Quantum Dots in Microstructured Optical Fibers.	Roddy Elky Ramos Gonzáles, et al.
436	Poster	Reuse of waste flat glass to obtain the ceramic stoneware	Valdênia de Sousa Porto, et al.
437	Poster	Optical Characterization of Fluorophosphates Glass Samples at Near-Infrared Region	Lidiane Maria Omena da Silva, et al.
438	Poster	USE OF GLASSY MATERIAL AS A COLOR MODIFIER ADDITIVE FOR CERAMIC TILE MASS	Geocris Rodrigues dos Santos, et al.
439	Poster	INFLUENCE OF PHOSPHORUS PRECURSORS ON THE SYNTHESIS OF GLASSY AND CRYSTALLINE SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> BIOACTIVE POWDERS	Renato Luiz Siqueira, et al.
441	Poster	CATION EFFECTS ON THE STRUCTURE OF 0.45SiO <sub>2</sub> -(0.45-x)MgO-xK <sub>2</sub> O- 0.1(3CaOP <sub>2</sub> O <sub>5</sub> ) GLASSES STUDIED BY 29SI MAS-NMR AND FTIR SPECTROSCOPY	Carlos Manuel Gomes de Araújo Queiroz
443	Poster	Structure and magnetic properties of the crystalline phases in SiO <sub>2</sub> :Li <sub>2</sub> O:Fe <sub>2</sub> O <sub>3</sub> glass-ceramics prepared via sol-gel method	M. A. Valente, et al.
444	Poster	Effect of the Dy <sub>2</sub> O <sub>3</sub> addition on the structure, morphology and optical properties of a SiO <sub>2</sub> :LiNbO <sub>3</sub> glass prepared by sol-gel	Manuel Almeida Valente, et al.
445	Poster	Dielectric properties of CCTO:TeO <sub>2</sub> composite	Filipe Miguel Borges Amaral, et al.
447	Poster	3-D THERMAL, HYDRODYNAMIC & MAGNETIC MODELLING OF ELABORATION OF GLASS BY INDUCTION IN COLD CRUCIBLE	Patrice Brun, et al.
448	Poster	PRECIOUS METAL FUNCTIONALIZED SODA-LIME SILICATE GLASSES	Anne Simo, et al.
449	Poster	STUDY OF STRUCTURAL AND DISPERSION OF REFRACTIVE INDEX OF TELLURITE GLASSES	Wilson A. Capanema, et al.
450	Poster	PHYSICAL-CHEMICAL CHARACTERIZATION OF FINE POWDER WASTE FROM POLISHING, HOLE AND EDGE CUTTING IN GLASS	Rosemary Bom Conselho Sales, et al.
451	Poster	HIGH MODULUS NEODYMIUM HYDROSILICATES SYNTHESIS AND PROPERTIES	Volodya Baghranyan, et al.
452	Poster	SOL GEL COATING CONTAINING SILICA NANOPARTICLES AND CERIUM SALTS ON CARBON STEEL	Ianina C. Santana, et al.
454	Poster	STUDY OF DOPING PROFILE OF SILICA-TITANIA GLASSES SYNTHESIZED BY THE SYNERGY OF VAD AND ALD TECHNIQUES	Tarcio Pelissoni Manfrim, et al.
455	Poster	Glass and glass-ceramics prepared in the binary system SiO <sub>2</sub> -WO <sub>3</sub>	Roberto Bertholdo, et al.
456	Poster	PRELIMINARY STUDY OF SELENIUM IN COMMERCIAL SODA-LIME GLASSES	Renata Andrade Kobayashi, et al.
458	Poster	STUDY OF THE INFLUENCE OF SILVER IMPURITY ON THE LINEAR AND NONLINEAR REFRACTIVE INDEX OF TELLURITE GLASSES	Júlia Maria Giehl, et al.
459	Poster	Distribution of sodim cations in the glass and glass fiber materials	Alexander Shubin, et al.
460	Poster	MULTINUCLEAR SOLID STATE NMR STUDIES OF SODIUM DISTRIBUTION IN SILICA FIBERGLASS MATERIALS. ROLE OF ADDITIVES (Al, Zr)	Dzhalil Khabibulin, et al.
462	Poster	DETERMINING THE CRYSTALLIZATION KINETIC PARAMETERS FOR THE FRESNOITE GLASS	Alisson Mendes Rodrigues, et al.
463	Poster	SiO <sub>2</sub> -K <sub>2</sub> O-MgO vitreous films doped with Erbium and Silver nanoparticles for optical applications.	María Virginia Roldán, et al.
468	Poster	Use of Red Mud as a Raw Material for Glass Preparation	Heveline Vieira, et al.
469	Poster	GLASS MATRICES FOR SOLAR CELLS	Kinowski, et al.
474	Poster	PERCEPTION OF STRATEGIC MARKETING AND NEW TECHNOLOGICAL PARADIGMS FOR MANUFACTURING GLASS PRODUCTS	Vicente de Paulo Santos Cerqueira
475	Poster	OPTICAL STUDIES OF NEODYMIUM AND PRASEODYMIUM DOPED PHOSPHATE GLASSES	Joseph Alfred Erwin Desa, et al.
476	Poster	PRODUCTION OF GLASS WOOL FROM ORNAMENTAL ROCK WASTES	Joner Oliveira Alves, et al.
477	Poster	NANOINDENTATION BEHAVIORS OF SiO <sub>2</sub> -CaO-Na <sub>2</sub> O GLASSES WITH □ TiO <sub>2</sub> , ZrO <sub>2</sub> AND HfO <sub>2</sub> UNDER LOW TEMPERATURE	Mirabbos Hojamberdiev, et al.
478	Poster	DOES VISCOSITY DESCRIBE THE KINETIC BARRIER FOR CRYSTAL GROWTH FROM THE LIQUIDUS TO THE GLASS TRANSITION?	Marcio Luis Nascimento, et al.
479	Poster	MOLECULAR-DYNAMICS SIMULATIONS OF SUPERCOOLED LITHIUM DISILICATE MELT	Luis Gustavo Vieira Gonçalves, et al.
480	Poster	INTERNATIONAL COLLABORATION ON THE STRENGTH OF GLASSES	Charles R. Kurkjian
481	Poster	LUMINESCENT PROPERTY OF METAL DOPED HIGH SILICA GLASS	Tomoko Akai, et al.
482	Poster	Vitrification process of steelmaking wastes	Joner Oliveira Alves, et al.
484	Poster	EPR OF γ – INDUCED PARAMAGNETIC CENTERS IN TELLURITE GLASSES	J. M. Giehl, et al.
486	Poster	TERMALLY STIMULATED DEPOLARIZATION CURRENT STUDY OF SODIUM TELLURITE GLASS	J. M. Giehl, et al.
487	Poster	ALTERNATIVE BORON OXIDE CARRIERS IN INSULATION AND EGLASS BATCH MODEL SYSTEM	Widiya Jatmiko, et al.
488	Poster	THE CRYSTALLIZATION OF CALCIUM PHOSPHATE GLASS CONTAINING STRONTIUM OXIDE	Denise Stolle da Luz Weiss, et al.
489	Poster	Solar heat reflective glass by nanostructured sol-gel multilayer coatings	Zoulfia Nagamedianova, et al.
491	Poster	Impedance measurements of phosphate glasses and melts in the temperature range 300 ? 1250°C	Sylvia Flügel & Doris Ehr

19:45

Banquet

Sept. 25 - 8:00 - 9:45 - Room A

8:00 - 9:45

Glass Surfaces: (Chairman: C.Pantano)

492	Invited	Adsorption Reactions and Polymer Interfaces with Multicomponent Glass Surfaces
51	Oral	PRECISE XPS DEPTH PROFILE OF SODA-LIME-SILICA GLASS USING C60 ION BEAM
234	Oral	LEAD CRYSTAL GLASS CORROSION IN ETHANOL AND ACIDS
497	Oral	STRUCTURE AND REACTIVITY OF GLASS SURFACES FROM ATOMISTIC COMPUTER SIMULATIONS
183	Oral	Optical properties of Pittsburgh glass subjected to mechanical and chemical treating

Carlo G. Pantano  
Yuichi Yamamoto, et al.  
Helena Hradecka, et al.  
A.Cormack  
Janusz Jaglarz

Break - 15min.

Break 9:45 - 10:00

8:00 - 9:45

Electrical Conductors (Chairman: J.L.Souquet)

238	Oral	MECHANOCHEMICAL SYNTHESIS OF LITHIUM ION CONDUCTING OXIDE GLASSES WITH HIGH Li <sub>2</sub> O CONTENT
86	Oral	Ionic glasses like ionic crystals or electrolytic solutions?
258	Oral	IMPROVEMENT OF ELECTROCHEMICAL PERFORMANCE OF ALL-SOLID-STATE LITHIUM SECONDARY BATTERIES BY USING Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> SOLID ELECTROLYTE
244	Oral	Mixed Conduction in Tungsten Phosphate Glass System
293	Oral	Characterization and Optimization of TMO containing glasses
113	Oral	STUDY OF PHYSICAL AND STRUCTURAL PROPERTIES OF 50B <sub>2</sub> O <sub>3</sub> -15PbO-(35-x)Li <sub>2</sub> O-xNa <sub>2</sub> O AND 50B <sub>2</sub> O <sub>3</sub> -15PbO-(35-x)LiF-xNaF GLASSES
429	Oral	MICROSTRUCTURAL AND ELECTRICAL CHARACTERIZATION OF PHASE SEPARATED GLASSES : USE OF NEAR FIELD MICROSCOPY

Akitoshi Hayashi, et al.  
Jean Louis Souquet  
Atsushi Sakuda, et al.  
Isaias Alejandro Oliva Torres, et al.  
Cristina Siligardi, et al.  
Fábio Augusto de Souza Ferreira, et al.  
A. A. Piarristeguy, et al.

Break - 15min.

Break 9:45 - 10:00

Sept. 25 - 8:00 - 9:45 - Room Tech.

New Glasses/Blister TC14&11 (Chairman: S.Toffoli)

377	Invited	Low Poisson Ratio Perfect Glasses formed by Amorphising Zeolites
361	Oral	Strontium chloro-antimonite glasses
45	Oral	Formation and properties of nitrogen rich glasses
410	Oral	Overview about Sources of Blister from refractories Issue of different Blister tests ? Necessary Improvements
358	Oral	MECHANISMS OF BLISTER FORMATION AT REFRACTORIES
394	Oral	STUDYING BUBBLE GLASS DEFECTS CAUSED BY REFRACTORY MATERIALS

George Nevile Greaves, et al.  
Marcel Poulain, et al.  
Bo Jonson, et al.  
Michael Dunkl  
Detlef Koepsel  
Erik H.P.H. Muijsenberg, et al.

CLOSING CEREMONY