UNIVERSITY OF TRENTO - Italy

PROGRAM

Riva del Garda (Trento – Italy)

Congress Centre

7 - 12 July, 2013

SPONSORED BY

UNIVERSITY OF TRENTO - Italy

Department of Physics

IFN

Institute for Photonics and Nanotechnologies

FONDAZIONE BRUNO KESSLER

CORNING

AGC

NCM12 – Conference site

RIVA DEL GARDA - CONGRESS CENTRE

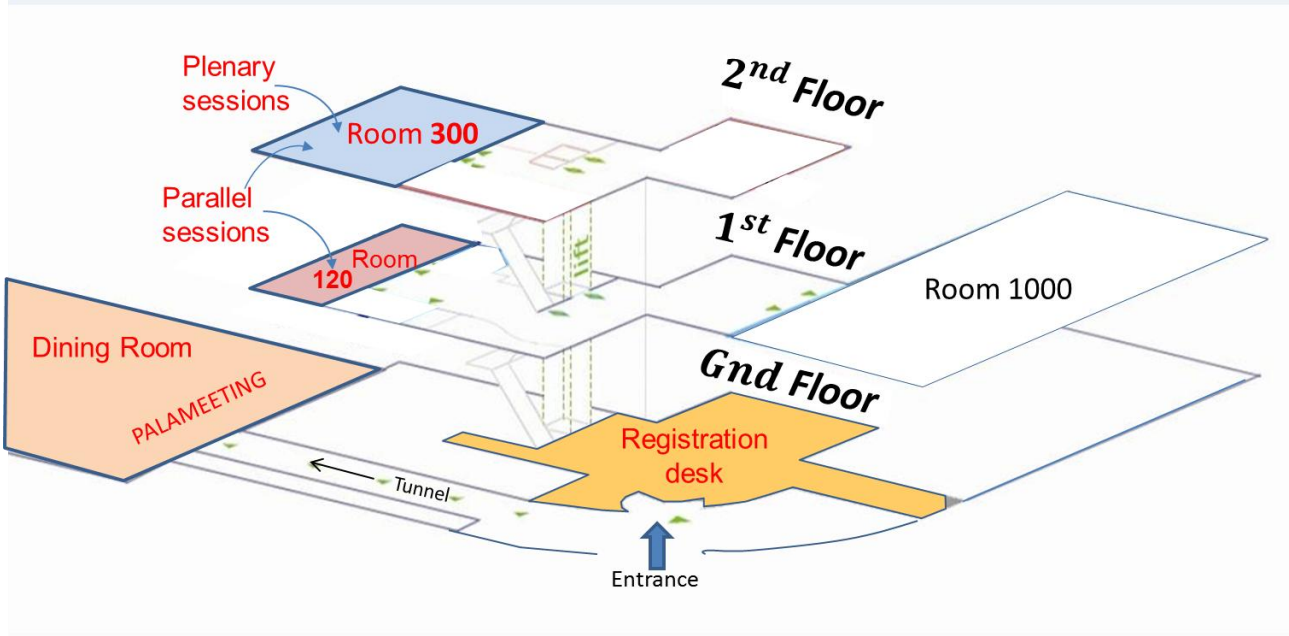
The Congress Centre, which is situated in the heart of the town, surrounded by ancient parkland, combines the most extraordinary lake-side setting with a strategic position, making it easily reachable on foot from the hotels.

The Centre consists of a congress area, where the conference halls and reception area are situated, which is directly connected to the multi-functional roomy Palameeting by means of a panoramic tunnel.

All the plenary lectures will be held in the **Room 300.**

The parallel sessions will be held in the **Rooms 300** and **120 i**n the afternoon of Tuesday 9th and Thursday 11th.

The lunches will be served in the **Palameeting**



NCM12 PROGRAM

SUNDAY July 7	MONDAY July 8	TUESDAY July 9	WEDNESDAY July 10	THURSDAY July 11	FRIDAY July 12
	Registration	*Registration*	*Registration*	*Registration*	*Registration*
	Opening	**B. Champagnon**	**L. Leibler**	**G. Lusvardi**	**S. R. Elliott**
	G. Calas	J. Zwanziger	B. Rossi	N. Karpukhina	***NCM13***
		G. Lelong	N. Funnel	J. Park	M. Popescu
	S. Sen	G. Carini	A. Kovalskiy	A. N. Cormack	K. Ramesh
	S. Chenu	*Coffee break & Poster Session 1*	*Coffee break & Poster Session 2*	*Coffee break & Poster Session 2*	M. Liska
	U. Hoppe				M. Vlcek
	Coffee break				*Coffee break*
	L. Pusztai	**G. B. McKenna**	**W. Kob**	**S. Kroeker**	**S. Hosokawa**
	A. Takada	O. Muratov	M. Heili	E. Gambuzzi	A. Hannon
	A. C. Wright	M. Neyret	M. Vasin	R. Hill	V. Kharchenko
		S. Yoda	***Lunch***	P. Florian	L. Koudelka
	Lunch	***Lunch***		***Lunch***	***Lunch***
	M. Cliffe	**M. Dubiel**	*SOCIAL PROGRAM*	**M. Dussauze**	H. Mehrer
	E. Svab	F. D'Acapito		J. Schneider	E. I. Kamitsos
Registration	O. Bouty	E. S. Ignat'eva		S. Reibstein	M. Ross
	A. Chehaidar	N. Nikonorov		A. Corrias	G. Broglia
Registration desk	*Coffee break & Poster Session 1*	*Coffee break*	*Sight-seeing trips*	*Coffee break*	R. Boidin
		N. Vedishcheva / C. Ferrante		A. Kuzmin / N. Dubinin	*End*
	C. Maurizio	G. Mountjoy / C. Weigel		M. Suszynska / E. Meyer	
		P. Kreski / S. Kojima		R. K. Brow / V. Sglavo	
	E. Barney	A. Gulenko / S. Caponi		N. Korobova / D. Moncke	
	B. Sava	T. Gusarova / G. Jug		A.S. Lipatiev / J.R. Duclère	
Welcome Party Lake Garden 18.00 - 19.30	A. Lukowiak	C.Carbonaro / B. Alling		H. B. Stanley	
			Banquet Casinò di Arco		

8.00 8.30 8.45 9.05 9.25 9.45 10.05 10.25 10.45 11.15 11.50 12.10 12.30 12.50 14.00 14.20 14.40 14.55 15.00 15.15 15.20 15.35 15.40 15.55 16.15 16.35 16.40 16.55 17.15 17.35 17.55 18.00 18.15 19.30

8.00 8.30 9.10 9.25 9.45 10.05 10.25 10.45 11.15 11.50 12.10 12.30 12.50 14.20 14.40 15.00 15.20 15.40 16.00 16.15 16.35 16.55 17.15 18.35 17.55 18.15 19.30

ROOM 300 *invited*

ROOM 300

ROOM 120

Palameeting

SUNDAY, JULY 7

15.00 – 18.00 **Registration** (Congress Centre)

Congress centre and its garden

18.00 – 19.30 **Get together party** (Lake garden at the Congress Centre)

MONDAY, JULY 8

8. 45 Opening: **Giuseppe Dalba** NCM12 Chairman

Welcome Address

Prof. Daria De Pretis

Rector of the University of Trento

9.05

Chairperson: **Anna Corrias**

9.05	*Transition elements in oxide glasses: witnesses and actors*	**G. Calas** *(Invited)***,** L. Cormier, L. Galoisy, G. Lelong and G. Ferlat
9.45	*Spectroscopic Observation of Fractal Spatial Distribution of Oxygen Atoms in Silicate Glass Networks*	**S. Sen**
10.05	*Nanostructured transparent glasses and glass-ceramics for tunable visible and infrared luminescence.*	**S. Chenu,** E. Véron, G. Matzen, T. Cardinal, D. Massiot, M. Allix
10.25	*Structure of Na_2O-GeO_2-P_2O_5 glasses by X-ray and neutron diffraction*	**U. Hoppe** N.P. Wyckoff, R. K. Brow, A.C. Hannon, M. von Zimmermann
10.45 – 11.15	***Coffee break***	

Chairperson: **Laurence Galoisy**

11.15	*Understanding disordered structures by Reverse Monte Carlo modelling*	**L. Pusztai** *(Invited)*
11.50	*Computer Simulation of Dynamical Structural Changes in Tridymite and Silica Glass*	**A. Takada,** K. Glaser, R. Bell, C. R. A. Catlow
12.10	*Crystalline-like ordering on melt-quenched glasses?*	**A.C. Wright** *(Invited)*

12.50	***Lunch***	
14.20		

Chairperson: **Shinya Hosokawa**

14.20	*Structural Simplicity as a Constraint for Refinement of Diffraction Data*	**M. J. Cliffe**, A. L. Goodwin
14.40	*Network structure of rare-earth molybdate glasses by diffraction and RMC modelling*	**E. Svab**, M. Fabian
15.00	*Modelling and predicting realistic results for borosilicate glasses of nuclear interest with the help of RMC, WAXS, neutron diffraction and 11B NMR*	**O. Bouty,** J. M. Delaye, S. Peuget, T. Charpentier
15.20	*Microstructural analysis of a two-phase atomistic model for amorphous silicon-germanium alloys*	**A. Chehaidar**, R. Ben Brahim
15.40	***Coffee break & Poster session 1***	
16.40		

Chairperson: **Richard K. Brow**

16.40	*Au nucleation in Er-doped silica and its effect on Er^{3+} luminescence*	**C. Maurizio** *(Invited)*
17.15	*The Role of Rare Earth Ions in Chalcogenide Glasses*	**E. Barney,** D. Furniss, N. A. Moneim, Z. Tang, T. Benson, A. Seddon
17.35	*Complex investigations of europium - doped phosphate glasses crystallization mechanism*	**B. A. Sava,** M. Elisa, C. Bartha, R. Iordanescu, I. Feraru
17.55	*Tailoring structural and photonic properties of rare earth-activated nanocrystalline tetraphosphate*	**A. Lukowiak,** R.J. Wiglusz, A. Chiappini, C. Armellini, I. K. Battisha, G.C. Righini, M. Ferrari
18.15		

TUESDAY, JULY 9

Chairperson: **Georges Calas**

8.30	*Structural evolution of silicate glasses under high pressure and Brillouin and Raman optical fiber sensors*	**B.Champagnon** *(Invited)***,** C. Sonneville, T. Deschamps, C. Martinet, V. Martinez, D. de Ligny, D. Vouagner, A.M. Jurdyc, S. Degioanni
9.05	*Correlation of Photoelastic Response of Glass with Composition by Brillouin Spectroscopy*	**J. Zwanziger,** J. Galbraith, M. Aldridge, J. Kieffer
9.25	*Structural origin of the pressure induced densification in GeO_2 glass: an O K-edge inelastic X-ray scattering study*	**G. Lelong,** L. Cormier, G. Ferlat, V. Giordano, G.S. Henderson, G. Calas
9.45	*Structural changes and inelastic relaxations in permanently compacted B_2O_3 glasses*	**G. Carini,** G. Carini Jr., G. D'Angelo, G. Tripodo, G. Di Marco, E. Gilioli
10.05 11.15	***Coffee break & Poster Session 1***	

Chairperson: **Akira Takada**

11.15	*Upper Bounds to the Relaxation Times in Glass-Forming Systems: Evidence of Non-Diverging Time-Scales from 20 Ma Dominican Amber*	**G. B. McKenna** *(Invited),* J. Zhao, S.L. Simon
11.50	*Investigation of the structure of ternary Al-Co-Si alloys in liquid and rapidly solidified state*	**O. S. Muratov,** O.S. Roik, V.P. Kazimirov. V.K. Nosenko
12.10	*Effect of alkali nature on borosilicate glass structure, viscosity and electrical conductivity*	**M. Neyret**, M. Lenoir, A. Grandjean, N. Massono, B. Peneln, M. Malki
12.30	*Glass Formation of LaTiZrO system by Containerless Processing*	**S. Yoda,** M.Kaneko, K. Yono
12.50		

12.50	***Lunch***	
14.20		

Chairperson: **Paolo Fornasini**

14.20	*Generation and modification of hollow metal nanoparticles in glasses*	**M. Dubiel** *(Invited)*
14.55	*Local environment of Er^{3+} luminescent ions in Transparent Glass Ceramics - Optical Fiber preforms*	**F. D'Acapito,** W. Blanc, M. Ude, S. Trzesien, B. Dussardier
15.15	*Crystallization processes in Ni2+-doped glasses of Me_2O-Ga_2O_3-SiO_2-GeO_2 system*	**E.S. Ignat'eva,** N.V. Golubev, E. Kh. Mamadzhanova, V.N. Sigaev, A. Lauria, A. Paleari, R. Lorenzi
11.35	*Effect of halogens on phase separation, spectral and luminescent properties of phototermorefractive glasses*	**N. Nikonorov,** V. Dubrovin, A. Ignatiev, R. Nuryev, A. Sidorov
15.55	***Coffee break***	
16.15		

Parallel session - Room 30

Chairperson: **A. N. Cormack**

16.15	*Intermediate-range Order in M2O-B2O3 (M = Li, Na, K, Rb, Cs & Ag) Glasses*	**N. M. Vedishcheva**
16.35	*Rotational invariants of network former and modifier cations in silicate glasses*	**G. Mountjoy,** D. Scott
16.55	*Atom-centric Voronoi Polyhedra Analysis of 'Stuffing' Alkali Accommodation in Molecular Dynamics Simulations of Ion-Exchanged Silicate Glasses*	**P.K. Kreski,** A.K. Varshneya , A.N. Cormack

17.15	*Interatomic Potentials for Atomistic Simulations of TeO_2-based Materials*	**A. Gulenko,** O. Masson, A. Berghout, D. Hamani, A. P. Mirgorodsky, P. Thomas
17.35	*Medium range order in niobate oxide glasses by Raman and Kerr measurements*	**T. Gusarova,** A.A. Lipovskii, D. Tagantsev, O. V. Yanush
17.55	*On the surface morphology of mesoporous SiO_2 by means of the optical properties of surface centers under different environment conditions.*	**C. Carbonaro,** P.C. Ricci, R. Corpino, M. Salis, A. Anedda

Parallel session - Room 120

Chairperson: **Doris Möncke**

16.15	*Sound attenuation in network-forming glasses at mesoscopic wavelengths: a broadband picosecond acoustics approach*	**C. Ferrante,** E. Pontecorvo, G. Cerullo, W. Schirmacher, T. Scopigno
16.35	*Vitreous Silica Distends in Helium Gas: Acoustic Versus Static Compressibilities*	**C. Weigel,** A. Polian, M. Kint, B. Rufflé, M. Foret, R. Vacher
16.55	*Boson Peaks of Alkali Borate Glasses Studied by Heat Capacity and Raman Scattering Measurements*	**S. Kojima**, Y. Matsuda, H. Kawaji
17.15	*Strict relationship between susceptibility and acoustic attenuation in glasses*	**S. Caponi,** S. Corezzi, A. Orecchini
17.35	*The glassy state, magnetically viewed from the frozen end*	**G. Jug,** S. Bonfanti, M. Paliienko
17.55	*Modeling structure and magnetism in amorphous CrN from first-principles*	**B. Alling,** A. Lindmaa, I. Abrikosov, R. Lizarraga, E. Holmström
18.15		

WEDNESDAY, JULY 10

Chairperson: **Stephen R. Elliott**

8.30	*Vitrimers*	**L. Leibler** *(Invited)*
9.05	*Glass-like dynamics of new cross-liked polymeric systems: behavior of the Boson peak*	**B. Rossi,** A. Fontana, M. Giarola, G. Mariotto, A. Mele, F. Trotta, F. Rossi
9.25	*Correlated local structure in the cyclohexane plastic phase*	**N. Funnel,** M. Dove, A. Goodwin, S. Parsons, M. Tucker
9.45	*Structure of Network Glasses by High-Resolution XPS: Bulk Glass vs. Thin Film*	**A. Kovalskiy,** R. Golovchak, M. Vlcek , H. Jain
10.05	***Coffee break & Poster session 2***	
11.15		

Chairperson: **U. Hoppe**

11.15	*The properties of a glass-forming system at its Kauzmann temperature*	**W. Kob** *(invited)*
11.50	*Impact of fictive temperature on glass density and structure of Ge-doped silica glasses*	**M. Heili,** M. Lancry, B. Poumellec, E. Burov, D.R. Neuville, C. Le Losq
12.10	*Theoretical Description of non-Debye relaxation, and Boson peak In Terms of Gauge Theory of Glass Transition*	**M. Vasin**
12.30	***Lunch***	
14.00		

14.00

Social program

Sight-seeing trips

18.00

19.30

Banquet

Casinò di Arco

NCM12 – Social events

Tours

1. Varone falls - Canale and lake Tenno
2) Limone and Malcesine by motorboat
3) Lake Ledro and the pile–dwelling museum

Duration of each trip:2:00 pm – 6:00 pm
The starting point for each trip will be communicate during the conference


Canale


Malcesine


Ledro

Social dinner

The social dinner will be held at **Casinò di Arco** on July 10, 2013.
Arco is a little town 5 Km far from Riva del Garda.

Details about the timetable of the bus transfer from the Congress Centre of Riva del Garda to the Casino and back will be given during the Conference

THURSDAY, JULY 11

Chairperson: **Alex Hannon**

8.30	*Bioglasses: glasses for medical applications*	**G. Lusvardi** *(Invited)* G. Malavasi, L. Menabue, M.C. Menziani, A. Pedone
9.05	*Sodium is Not Essential for High Bioactivity of Glasses*	**N. Karpukhina,** X. Chen, R. Hill, M. Mneimne, D. Brauer, R. M. Wilson, R.V. Law
9.25	*Structure-Property Relationships of CaO-SiO_2-MO ($M=Mn^{2+}$, Mg^{2+}) Oxide Melts derived from micro-Raman Spectroscopy*	**J.H. Park**
9.45	*On the Structure of Water in Silica and Sodium Silicate Glass*	**A.N. Cormack**
10.05 11.15	***Coffee Break & Poster Section 2***	

Chairperson: **Josef W. Zwanziger**

11.15	*Pushing the envelope in NMR spectroscopy of glasses: gallophosphates and disordered paramagnetic systems*	**S. Kroeker** *(Invited)*
11.50	*Computational solid state NMR spectroscopy: an effective tool to investigate silicate and aluminosilicate glass structural features*	**E. Gambuzzi**, A. Pedone, T. Charpentier, M.C. Menziani
12.10	*Structure of Oxyfluoride Glasses and the Relationship of Fluorine Speciation to the Crystal Phases Formed*	**R. Hill**
12.30	*Competition for Charges: a Comprehensive View of Cations Structural Role in Aluminosilicate Glasses*	**P. Florian,** V. Montouillout, D. Massiot, D.R. Neuville
12.50 14.20	***Lunch***	

Chairperson**: Efstratios I. Kamitsos**

14.20	*Thermally poled glasses: Towards a control of their structure and second order optical properties at the micrometer scale*	**M. Dussauze** *(Invited)* T. Cremoux, G. Yang, T. Cardinal, E. Fargin, V. Rodriguez
14.55	*Hybrid Photochromic Materials Based on Phosphotungstic Acid Analyzed by NMR and EPR Spectroscopy*	**J. Schneider,** M. de Oliveira Jr., U.P. Rodrigues Filho, C.J. Magón
15.15	*Photochemical reaction and irradiation induced particle formation in ionic sulfophosphate glasses*	**S. Reibstein,** D. Möncke, J. Herbst, D. Schumacher, A. Höll, L. Wondraczek
15.35	*An X-ray Absorption Spectroscopy Study of Nanostructured Doped TiO_2 for Dye Sensitized Solar Cells*	**A. Corrias**, D. Carta, D. Gozzi, A. Latini
15.55 16.15	***Coffee break***	

Parallel sessions - Room 300

Chairperson: **Mihai A. Popescu**

16.15	*EXAFS study of Cu-doped WO_3 thin films for use in electrochemical metallization cell memory*	**A. Kuzmin,** A. Anspoks, A. Kalinko, J. Timoshenko, R. Kalendarev
16.35	*Microstructure of copper doped soda lime silicate glass studied by TEM and Raman spectroscopy*	**M. Suszynska,** M. Maczka, P. Gusowski, L. Krajczyk
16.55	*Color Bleaching from Niobium Phosphate Glasses*	**R.K. Brow,** L. Ghussn, R.M.C.V. Reis, D. Blane Baker
17.15	*Structure peculiarities of different functional oxide films prepared from metal alkoxide solutions*	**N. Korobova,** V. Vodopyanov, S. Timoshenkov

17.35	*Laser-induced space-selective blue photoluminescence in alkali gallium germanosilicate glasses*	**A.S. Lipatiev,** S.V. Lotarev, N.V. Golubev, E.S. Ignat'eva, Yu. S. Priseko, A. Paleari, V.N. Sigaev
17.55	*To be confirmed*	
18.15		

Parallel session - Room 120

Chairperson: **Olga Dymshits**

16.15	*The Square-Well Model in the Mean Spherical Approximation for Calculating the Entropy of Liquid Binary Metal Alloys*	**N.E. Dubinin,** V.V.Filippov, A.A.Yuryev, N.A.Vatolin
16.35	*Curvature dependent interfacial tension in classical nucleation theory*	**E. Meyer,** V. Soares
16.55	*Evolution of the surface structure in soda lime silicate glass subjected to chemical*	**V.M. Sglavo,** G. Mariotto, V. Allodi, A. Quaranta
17.15	*Indentation-Induced Densification in Borosilicate Glasses Probed by Micro-Raman and Micro-Infrared Spectroscopy*	**D. Möncke,** A. Winterstein, D. Palles, E.I. Kamitsos, L. Wondraczek
17.35	*Detection of the first steps of crystallization of ZrO_2:Eu^{3+} xerogels by combining various in situ techniques*	**J.R. Duclère,** R. Ikeshita, T. Hayakawa, A. Lecomte, O. Masson, J.Cornette, R. Mayet, P. Carles, M. Dutreilh-Colas, F. Remondière
17.55	*Devitrification Processes Influenced by Synchrotron X-ray Irradiation*	**H. Stanley,** V. Martis, D.H. Merino, P. Pattison, A. Longo, S. Sen, W. Bras
18.15		

FRIDAY, JULY 12

Chairperson: **Natalia M. Vedishcheva**

8.30	*Ab initio Molecular-dynamics Simulations of Ge-Sb-Te Phase-change Materials for Non-volatile Memory Applications*	**S.R. Elliott** *(Invited),* Tae-Hoon. Lee
9.10	NCM13	
9.25	*Structure and switching properties in chalcogenide systems at the border of glass formation domain*	**M. Popescu,** A. Velea
9.45	*Rigidity percolation threshold in rapid quenched Ge-As-Te chalcogenide glasses*	**K. Ramesh,** N. Kotteeswara Reddy, E.S.R. Gopal
10.05	*Structure of As_2S_3 - Sb_4S_4 Glasses by Combined Raman Spectroscopy and Thermodynamic Modeling Approach*	**M. Liska,** M. Chromčíková, J. Holubová, Z. Černošek
10.25	*Optical properties changes of $As_{40}S_{60}$-xSex thin films induced by multiple wavelength beams*	**M. Vlcek,** I. Voynarovych, K. Palka, L. Koudelka, P. Mosner
10.45 11.15	***Coffee break***	

Chairperson: **Ladislav Červinka**

11.15	*Anomalous x-ray scattering using synchrotron radiation for semiconducting and metallic glasses*	**S. Hosokawa** *(Invited)*
11.50	*The tellurium coordination and the role of oxygen in pure amorphous TeO_2 and tellurite glasses*	**A.C. Hannon,** E. R. Barney, D. Holland, S. A. Feller, N. Umesaki, M. Tatsumisago, R. G. Orman
12.10	*Influence of the Lead Difluoride on Ion Mobility and Thermal Behavior of Glasses in the PbO-TeO_2-P_2O_5-PbF_2 System According to NMR and DTA Data*	**V.I. Kharchenko,** L.N. Alexeiko, V. Ya. Kavun, A.B. Slobodyuk, I. G. Maslennikova, V.K. Goncharuk

12.30	*Structure and properties of lead borophosphate glasses doped by tellurium dioxide*	**L. Koudelka,** I. Rösslerová, P. Mošner, Z. Černošek, L. Montagne, B.Revel
12.50	***Lunch***	
14.20		

Chairperson: **Ladislav Koudelka**

14.20	*Diffusion and Ion Transport in Oxide Glasses*	**H. Mehrer**
14.40	*Lithium Ion Conducting Boron-Oxynitride Amorphous Thin Films: Synthesis and Molecular Structure by Infrared Spectroscopy and DFT Modeling*	**E.I. Kamitsos,** M. Dussauze, P. Johansson, A. Matic, C.P.E. Varsamis, D. Cavagnat, P. Vinatier, Y. Hamon
15.00	*Atomic diffusion in superionic conducting glasses studied with X-ray photon correlation spectroscopy*	**M. Ross,** M. Leitner, M. Stana, B. Sepiol
15.20	*Conduction mechanism in vanadophosphate glasses: computational modeling and experimental characterization*	**G. Broglia,** M. Montorsi, C. Mugoni, C. Siligardi, M. Affatigato
15.40	*Structural features of HgI_2-Ag_2S-As_2S_3 fast ion conducting glasses: high-energy x-ray and neutron diffraction studies*	**R. Boidin,** D. Le Coq, A. Bytchkov, C. J. Benmore, B. Beuneu, K. Michel, E. Bychkov
16.00		

The end

POSTER SESSION A

Nano Structures and Quantum Dots		
A-1	Synthesis and Characterization of TiO2 Quantum Dots in Borate Glass	AMIN EL ADAWY
A-2	Glass ceramics nanocomposite containing ferroelectric Bismuth Vanadate	NATALIA A. SZREDER, Ryszard J. Bar zyski
A-3	Local structure relaxation in nanosized tungstates	ALEXEI KUZMIN, A. Anspoks, A. Kalinko, J. Timoshenko
A-4	Nanocomposite films prepared from stabilized aqueous SiO2 sols	ALFONZ PLŠKO, Jana Pagáčová, Jana Šulcová, Barbora Bieliková, Miriama Tomagová, Katarína Michalková, Anna Rodová
A-5	Optically induced Anatase-to-Rutile phase transition in TiO2 nanoparticles	CARLO MARIA CARBONARO , Pier Carlo Ricci, Luigi Stagi, Marcello Salis, Alberto Casu, Stefano Enzo, Francesco Delogu
A-6	Ultrashort Interlevel Relaxation of Excited States in Semiconductor Nanocrystals in the Strong Confinement Regime	ALEXEI A. ONUSHCHENKO, Valerii V. Golubkov Dmitry I. Staselko Sergei A. Tikhomirov
A-7	NMR and IR lighting of structural modifications induced by gold nanoparticles precipitation in glasses	VALÉRIE MONTOUILLOUT , Nadia Pellerin, Jean-Philippe Blondeau, Domingos De Sousa Meneses, Dominique Massiot
A-8	Fabrication and optical properties of assembled gold NPs monolayer on elastomeric substrate	LUCA MINATI, Andrea Chiappini, Cristina Armellini, Giorgio Speranza, Giancarlo C. Righini, Maurizio Ferrari
A-9	Influence of the Ag+-ions on formation of PbSe quantum dots in fluorophosphate glasses.	ALEKSANDRA V. POLIAKOVA, Albert N. Abdrshin, Vladimir A. Aseev, Elena V. Kolobkova, Nikolay V. Nikonorov
A-10	Nikel and Iron-Nikel Nanoparticles dispersed on SBA-16: Synthesis and structural Characterization	DANIELA CARTA, Danilo Loche, Maria F. Casula, Anna Corrias

Bioglasses and materials for biological interest		
A-11	Investigation of Homogeneous Nucleation of Sulfur and Ibuprofen Vapors: Determination of Critical Nuclei Surface Tension	SERGEY V. VALIULIN, A.V. Samodurov, S.V. Vosel, A.A. Onischuk, V.V. Karasev
A-12	Influence of the Synthesis Conditions on the Morphology of Organic-Inorganic Hybrid Materials Prepared by Sol-Gel Route	NINA ENCHEVA VELIKOVA, Yuliya E. Vueva, Mohammed Abdallah, Mariela Dimitrova, Yordanka Y. Ivanova, Yanko B. Dimitriev, Isabel M. Miranda Salvado and M. Helena F. V. Fernandes
A-13	Structure and Properties of Organically Modified Silica Nanostructured Materials	ELENA V. TODOROVA, Georgi E. Chernev, Yana Y. Evstatieva, Dilyana P. Nikolova, Mariya S. Yordanova, Isabel M.M. Salvado
A-14	Novel highly degradable chloride containing bioactive glasses	XIAOJING CHEN, Natalia Karpukhina Rory M. Wilson Robert Hill
A-15	Effect of SeO2 addition on structure of some bioactive glasses	R. CICEO LUCACEL, T. Radu, V. Simon, O.Ponta
A-16	Correlation between Structural and Mechanical Properties of Zn-loaded Multi-component Borogermanate Glasses	XIAOFANG ZHANG, Ulrike Werner-Zwanziger Daniel Boyd

Structural Studies by X-ray and Neutron		
A-17	SAXS investigation of fractal properties of MnO2 non crystalline layers	LEONID I. SKATKOV, Valeriy P. Gomozov
A-18	Static Structures and Ionic Transport Properties of Molten NaI, RbI and Their Mixtures	SHUTA TAHARA, Shuta Tahara, Yukinobu Kawakita, Hironori Shimakura, Shinji Kohara and Takanori Fukami
A-19	Anomalous scattering of light by phase-separated sodium borosilicate glass	MIKHAIL P. SHEPILOV, Olga S. Dymshits, Alexander A. Zhilin, Alexander A. Kalmykov and Galina A. Sycheva
A-20	Structure study of new uranium loaded borosilicate glasses	MARGIT FABIAN, Erzsebet Svab
A-21	Calculation of diffraction curves of ternary melts based on data for boundary binary melts	OLEKSII S. MURATOV, Oleksandr S. Roik Nataliya V. Golovataya Oleksii M. Yakovenko Volodymyr P. Kazimirov
A-22	Structure and phase transformations of ZAS glasses with small amounts of transition metal ions by SAXS and XRD methods	ALEXANDER A. ZHILIN, Valery V. Golubkov, Irina P. Alekseeva, Olga S. Dymshits, Marina Ya. Tsenter

A-23	Characterization of tin fluorophosphate glasses using X-ray photoelectron spectroscopy	CARRIE BRENNAN, Tristan Harper Justin Oelgoetz Roman Golovchak Himanshu Jain
A-24	Spatially-resolved micro XANES and EXAFS studies of laser induced modifications in lead vanadate glasses.	FRANCESCO ROCCA, G. Dalba, R. Graziola, R. Grisenti, A. M. Flank, P. Lagarde, S. Yosinski, T. Ahline, K. Hopkins and M. Affatigato
A-25	O 2p partial density of states and bond angles around O atoms in typical oxide glasses	SHINYA HOSOKAWA, H. Sato, K. Mimura, Y. Tezuka, D. Fukunaga, and F. Shimojo
A-26	Dynamics and static structures of dense chalcogen-halogen molecular liquids	HIRONORI SHIMAKURA, Yukinobu Kawakita, László Pusztai , Satoshi Ohmura, Koji Ohara, Shinichi Takeda and Satoru Ohno
A-27	Topological disorder in metal-organic framework materials.	ANDREW B. CAIRNS, Matthew J. Cliffe Matthew G. Tucker David A. Keen Leigh Connor Mark Wilson Andrew L. Goodwin
A-28	Transparency and long-range fluctuations in glass-ceramics. SAXS measurement in HfO2-SiO2 films.	GABRIELE GASPERI, M. Mattarelli, C. Armellini, F. Rocca, A. Diaz, T.H.Metzger, M. Montagna
A-29	Atomic dynamics and aging in glasses probed by X-ray Photon Correlation Spectroscopy	GIULIO MONACO, B. Ruta, Y. Chushkin, L. Cipelletti, E. Pineda, P, Bruna and V. M. Giordano

Optical Properties

A-30	Light emission from gamma-Ga2O3 nanocrystals embedded in germanosilicate glass: structural and optical features	NIKITA GOLUBEV, E.S. Ignat'eva, V.N. Sigaev, B. Champagnon, D. Vouagner, E. Nardou, A. Paleari and R. Lorenzi
A-31	Formation and luminescent proerties of molecular clusters (Se)n and (PbSe)n (n < 5) in fluorophosphate glasses	KOLOBKOVA ELENA, Dmitry Kukushkin, Nikolay Nikonorov, Teimur Shakhverdov, Alexander Sidorov
A-32	Structure and optical properties of electrochromic a-WO3 films obtained by sol-gel method	KOLOBKOVA ELENA, Evgenia Sohovich, Vera Zemko, Nikolay Nikonorov, Pavel Shirshnev
A-33	Refractive index calculation of titanate glasses based on the Lines theory using short range structures	YASUTOMO ARAI, K. Itoh, K. Maruyama and E. Iguchi
A-34	Numerical analysis of bulk and nanostructured passive Q-switches for Erbium laser oscillators	DAN SAVASTRU, Roxana Savastru Sorin Miclos Ion Lancranjan
A-35	Influence of the excitation power on the photoluminescence spectral shape of Si-V color center in nano- and microcrystalline diamond	S. TÓTH, L. Himics, M. Veres, M. Koós and V. G. Ralchenko

A-36	Structure and optical properties of the photochromic quartz-like glasses activated by silver halogenides	ANTROPOVA TATIANA, Girsova M., Anfimova I., Drozdova I. and Polyakova I.
A-37	XEOL investigation of Rare Earth ions in luminiescent silica based nanoparticles.	FRANCESCO D'ACAPITO, M. C. Gonçalves, L. Fortes
A-38	Synthesis, Characterization and Optical Properties of Non-Traditional Tellurite-Selenite Glasses	A. BACHVAROVA-NEDELCHEVA, R. Iordanova, K. L. Kostov, St. Yordanov and V. Ganev

High Pressure and High Temperature		
A-39	Transport anomalies,structure and ring structure in densified liquid B2O3	AXELLE BARONI , Matthieu Micoulaut Guillaume Ferlat Mathieu Salanne
A-40	New insights on specific heat in glasses	ALDO FONTANA, G. Baldi, G. Carini , A. Chumakov, G. D'Angelo, A. Fontana, E. Gilioli, G. Monaco, B. Rossi, G. Tripodo and M. Zanatta
A-41	High Temperature Brillouin Scattering Study on Elastic Properties of Lithium and Caesium Borate Glasses, Crystal and Their Melts	SEIJI KOJIMA, Shunsuke Aramomi, Yu Matsuda

Modelling and Computational Studies		
A-42	The Pores in Silica Glasses Detected by Positron Annihilation Spectroscopy	MASANORI FUJINAMI, Shuhei Aoyama, Kenta Hara, Madoka Ono, Jun Endo, Setsuro Ito
A-43	Nanoindentation Studies of Nuclear Glass Using Molecular Dynamics	DIMITRIOS KILYMIS, Jean-Marc Delaye
A-44	Computer simulations of amorphous alloys in the interpretation of the result obtained with TEM.	EVGENY MODIN, Aleksandr Dubinets, Evgeny Pustovalov, Vladimir Plotnikov,and Alexey Kirillov
A-45	Essential Structural Features of 'Stuffing' Alkali Accommodation in Ion-Exchanged Silicate Glasses from Molecular Dynamics Simulations	PATRICK K. KRESKI, Arun K. Varshneya Alastair N. Cormack
A-46	Structure and stability of amorphous bismuth supercells by Density Functional Theory calculations	ZAAHEL MATA PINZÓN, Ariel A. Valladares Alexander Valladares R. M. Valladares

A-47	Numerical analysis of photonic crystal waveguide	SORIN MICLOS, Dan Savastru, Roxana Savastru, Ion Lancranjan, Constantin Opran
A-48	Neutron and X-ray Diffraction and Empirical Potential Structure Refinement Modelling of Magnesium Stabilised Amorphous Calcium Carbonate	GLYN COBOURNE, G. Mountjoy, J.D. Rodriguez-Blanco, L. G. Benning, A.C. Hannon, J. Plaisier
A-49	Molecular dynamics modelling of the structure of barium silicate glasses BaO-SiO2	GAVIN MOUNTJOY, Maha Rai
A-50	Atomic scale based characterization of calcium Magnesium alumino silicate glass	ADAMA TANDIA, Deenamma Vargheese
A-51	Reverse Monte Carlo Simulation on Structure Change of CuZrAlAg Metallic Glasses	TAKESHI USUKI, Toshio Nasu Wei Zhang Akihisa Inoue Shinji Kohara
A-52	A Novel Interpretation of the Mean Structure of Feroxyhite	GABRIELE NAVARRA, Matteo Sestu, Anna Corrias, Maria F. Casula and Daniela Carta
A-53	Mechanical Strength of Consolidated Nanometer-sized Aluminum Single Crystals: Molecular Dynamics Study	TAMER EL SAYED, Nasser Afify, Hanadi Salem, Arash Yavari

Applications of Non-crystalline Materials

A-54	Non-crystalline material on the base of hydrolysis lignin	ALEXANDER TSVETNIKOV, Denis Opra, Ludmila Matveenko, Sergei Sinebryukhov, Sergei Gnedenkov, Valentin Sergeenko
A-55	The influence of small molecules on properties of TiO2 films prepared by sol-gel method	JANA PAGÁČOVÁ, Alfonz Plško, Katarína Michalková, Jana Šulcová, Barbora Bieliková, Miriama Tomagová
A-56	Structural Change of Carbon Supported Platinum Nanocatalyst Subjected to a Step-like Potential Cycling in PEM FC	WITKOWSKA AGNIESZKA, Agnieszka Witkowska, Giorgia Greco, Sonia Dsoke, Roberto Marassi and Andrea Di Cicco
A-57	Structure-thermal properties correlations of some polyethylene glycol-epoxy composites for heat storage in buildings	ELENA MARIA ANGHEL, Vlad T. Popa, Elena Buixaderas, Mariella Constantinescu, Mihai Anastasescu
A-58	Ionic Conduction in Glasses in the MnNbOF5-BaF2-BiF3 System	SAVCHENKO NATALIA, S.A. Polyshchuk, L.N. Ignatieva, S.L. Sinebryukhov, S.V. Gnedenkov, A.B. Podgorbunsky, A.B. Slobodyuk, V.M. Bouznik

A-59	Fluorine-phosphate glasses doped with europium and manganese ions	YANA A. NEKRASOVA, Vladimir A. Aseev, Elena V. Kolobkova, Nikolay V. Nikonorov, Oleg A. Usov
A-60	Glass-like Metal Nitride Hard Thin Films	HANNA FAGER, J.M. Andersson J. Lu M.P. Johansson M. Odén L. Hultman
A-61	Utilizing Activated Glass Waste as Alternative Micro-filler for High Performance Concrete	GENADY SHAKHMENKO, Aleksandrs Korjakins, Nikolajs Toropovs
A-62	EXAFS analysis of lanthanide-containing glass-ceramic sealants for solid oxide fuel cells	TORRENGO SIMONA, F. d' Acapito, L. Santos, A. Goel, A. A. Reddy, J. M. F. Ferreira
A-63	Microstructure and adherence of enamel to commercial pure titanium	L.C.TSAO , Kuo-Huan Fan and Yen-Teng Huang
A-64	Chalcogenide glasses from point of view of the barrier-cluster-	IVAN BANIK
A-65	The Effect of Zinc and Germanium on the Degradation and Cytocompatibility of Multi-component Borate Glasses	XIAOFANG ZHANG, Xiaofang Zhang Daniel Boyd
A-66	Effect of heating atmosphere on the surface conductivity of Cu2O-Al2O3-SiO2 glass	LESZEK WICIKOWSKI, L. Murawski, R.J. Barczynski, K. Trzebiatowski
A-67	EXAFS studies of AgI-doped fast ion conducting glasses: recent advances	PAOLO FORNASINI, G. Dalba, R. Grisenti, A. Kuzmin, A. Sanson, C. Armellini and F. Rocca
A-68	Oxidation resistant coatings of some intermetallic alloys of titanium	ELENA MARIA ANGHEL, Alexandra Banu, Maria Marcu, Elvira Alexandrescu, Irina Atkinson and Simona Petrescu

POSTER SESSION B

Non-Crystalline Materials: Preparation and Properties		
B-1	Structure and thermal stability of (Si)-B-C ceramics synthesized by chemical vapour deposition	GEORGES CHOLLON, Camille Pallier, Jean-Marc Leyssale, Patrick Weisbecker, Francis Teyssandier, Christel Gervais, Henri Fischer, Fausto Sirotti
B-2	On the structural and optical properties of rare-earth-doped SiOx films deposited by sputtering	A.R. ZANATTA
B-3	Highly transparent tellurite glasses and glass-ceramics elaborated by non-conventional spark plasma sintering	JEAN-RENÉ DUCLÈRE, Anthony Bertrand, Julie Carreaud, Gaëlle Delaizir, Maggy Dutreilh-Colas, Alexis Labruyère, Vincent Couderc, Philippe Thomas
B-4	Characteristics of Amorphous YAG: Rare-earth Oxide Prepared by Aerodynamic Levitation	CHI-HOON LEE, Shinichi Yoda, Won-seung Cho
B-5	X-ray photoelectron spectroscopic studies of glasses in the MoO3-Bi2O3 and MoO3-Bi2O3-CuO systems	MARGARITA MILANOVA, Reni Iordanova, Krassimir L. Kostov and Yanko Dimitriev
B-6	The UV Radiation Influence on the Silver Clusters Formation in the Photothermorefractive Glasses	TATIANA A. KHRUSHCHEVA, Aleksander I. Sidorov, Evgenyi S. Postnikov, Ivan A. Dyomichev and Nikolai V. Nikonorov
B-7	Variability of Cr3+ and Ni2+ environments in oxide glasses: structural or chemical probes?	LAURENCE GALOISY, Georges Calas, Olivier Villain, Antoine Bénard
B-8	NMR lighting of structural modification induced by high rare earth content incorporation in peraluminous glasses	MONTOUILLOUT VALÉRIE, Estelle Gasnier, Nadia Pellerin, Isabelle Giboire , Pierre Florian , Dominique Massiot
B-9	Synthesis and properties of ZnO/Al thin films prepared by the dip-coating process	INNA JUHNEVICA, Marija Masonkina, Gundars Mezinskis, Alona Gabrene
B-10	Heat treatment of a ball milled copper powder	DJIBRIL DIOP, S. Diouf, A. C. Wade, I. Diouf, M. Sall

Rare Earths – doped materials		
B-11	Overview of structural and crystallization studies on a rare-earth rich aluminoborosilicate glass for high nuclear waste loadings.	ARNAUD QUINTAS , D. Caurant, O. Majerus, J.-L. Dussossoy
B-12	Effect of RE on the crystallization of zinc bromoantimonite glasses	MESSAOUD LEGOUERA, Petr Kostka, Jiri Zavadil, F. Goumeidane, M. Lezid, M. Poulain
B-13	Optical and thermoluminescent properties of lead di-borate glasses doped with Ce and Eu	MAURICIO RODRÍGUEZ CHIALANZA, Andrés Cárdenas, Maia Mombrú, Eduardo Castigloni, Laura Fornaro
B-14	Thermal-induced local rearrangement in the Er environment of Er-doped silica glass films prepared by PVD	ELTI CATTARUZZA, Michele Back, Giancarlo Battaglin, Marco Boffelli, Francesco Gonella, Andrea Leto, Giuseppe Pezzotti and Enrico Trave

Nucleation and Crystallization studies		
B-15	Crystal growth and dielectric properties of BaTiO3 obtained in invert aluminoborosilicate glasses	RUZHA HARIZANOVA, Christian Bocker, Georgi Avdeev, Christian Rüssel and Ivailo Gugov
B-16	The study of short- and middle-range order in oxyflyoroniobate glasses	LIDIIA N. IGNATEVA, Natalia Savchenko, Nikolai Syrovtsev, Sergey Adishtchev, Vyacheslav Bouznik
B-17	Influence of Nickel concentration on the metal-induced crystallization of amorphous Silicon thin films	ANTONIO RICARDO ZANATTA, D.C. Ingram and M.E. Kordesch
B-18	Nanostructure and dielectric behaviour of vanadate glasses containing barium titanate	RYSZARD J. BARCZYNSKI, Natalia A. Szreder
B-19	Atomic Structure and Morphology of CoP-CoNiP Amorphous Alloys by Cs-corrected Electron Microscopy	EVGENY V.PUSTOVALOV, Aleksandr N. Fedorets, Aleksandr V. Dubinets, Sergey S.Grabchikov, Boris N. Grudin and Vladimir S.Plotnikov
B-20	Structure and composition investigation of amorphous alloy CoP	EVGENY V.PUSTOVALOV, Aleksandr N. Fedorets, Oleg V. Voitenko, Sergey S.Grabchikov, Vladimir V. Plotnikov
B-21	Structure of Co-P amorphous alloy under thermal impact	EVGENY MODIN, Evgeny Pustovalov, Oleg Voitenko, Vladimir Plotnikov
B-22	Synthesis and structure analysis of zirconia nanocrystals	PHILIPPE THOMAS, Roberto Grena, Olivier Masson, Fabien Rémondière, Abid Berghout and Laura Portal
B-23	Influence of UV Irradiation on Surface Properties of PC-TiO2 Nanocomposite Film	VAHID JABERIAN HAMEDAN, B. Jaleh, N.Shahbazi

B-24	Crystallization properties of Lead oxyfluorides glasses doped with lanthanides	VLADIMIR ASEEV, Valeriy Golubkov, Elena Kolobkova, Nikolay Nikonorov
B-25	Photodestruction of silver nanocrystals in photo-thermo-refractive glasses under pulse laser radiation	NIKOLAY NIKONOROV, Alexander Ignatiev, Dmitry Ignatiev, Alexander Sidorov
B-26	Phase transformations of NiO-doped ZnO-Al2O3-SiO2 glasses nucleated by a mixture of TiO2 and ZrO2	OLGA S. DYMSHITS, Irina P. Alekseeva, Valery V. Golubkov, Marina Ya. Tsenter and Alexander A. Zhilin
B-27	Crystal growth kinetics in GeS2 glass	VERONIKA PODZEMNÁ, Jaroslav Barták, Jiří Málek
B-28	Laser-induced crystallization process in transparent neodymium oxyfluoride nano-glassceramics	RUSTAM NURYEV, Alexander Trofimov, Anastasiya Bibik, Vladimir Aseev, Elena Kolobkova, Nikolay Nikonorov
B-29	Magnetite encapsulation into the silica matrix as stabilization method	ALONA GABRENE, Inna Juhnevica, Janina Setina, Gundars Mezinskis
B-30	Influence of aluminium and boron ions on the crystallization of silicate-phosphate glasses from NaCaPO4-SiO2 system	KATARZYNA BULAT, Maciej Sitarz, Aleksandra Wajda

Structural Studies by NMR techniques

B-31	Physical and Structural Studies of Lithium Borophosphate Glasses Containing TeO2	PETR MOŠNER, Maryna Vorokhta, Ladislav Koudelka and Jana Holubová
B-32	Investigation of multicomponent PbO-B2O3-P2O5-WO3 glasses	IVANA RÖSSLEROVÁ, Ladislav Koudelka, Petr Mošner, Zdeněk Černošek, Lionel Montagne, Bertrand Revel and Gregory Tricot
B-33	Structure investigation of alkali and alkaline earth metal modified zinc metaphosphate glasses	NASIMA KANWAL, Natalia Karpukhina, Isaac Abrahams
B-34	Structure of Glasses Obtained in the ZrF4-BaF2-SnF2-P2O5-MF3 (M = Ga, In, Sb) Systems According to NMR Data	VALERIY I. KHARCHENKO, Leonid N. Alexeiko, Valeriy Ya. Kavun, Arseniy B. Slobodyuk, Irina G. Maslennikova, Vladimir K. Goncharuk, Ilya A. Telin
B-35	Evidence of phosphate clusters in bioactive glasses by solid-state 31P multiple-quantum NMR	FRANCK FAYON, Cédric Duée, Thomas Poumeyrol, Mathieu Allix, Dominique Massiot
B-36	First Principle calculations of NMR parameters of 29Si, 31P, 17O and 19F nuclei in Bioactive Glasses.	ALFONSO PEDONE, Thibault Charpentier, Maria Cristina Menziani

Light Scattering and Optical Spectroscopies		
B-37	Spectroscopic and structural properties of Fe3+ in silicate glasses	VINCENT VERCAMER, Lelong G. Galoisy L. Hijiya H. Kondo Y.
B-38	IR spectroscopic study of silica ceramics	ALEXANDRE CHMEL, Rustam Mamalimov
B-39	Stress-induced modification of the Boson Peak scaling behavior	SILVIA CAPONI, S. Corezzi, F. Rossi, D. Fioretto
B-40	Structural Characterization of Lead Silicate Glasses	ATUL KHANNA, Arshpreet Kaur
B-41	Gradient profiling of silver nanoparticles in thermally treated soda-lime glasses by Raman micro-spectroscopy	ALBERTO QUARANTA, A. Rahman, G. Mariotto, E. Cattaruzza, F. Gonella,
B-42	Structure and Ion Mobility in the ZrF4-BiF3-PbF2 Glasses by Raman and NMR Spectroscopy	VALERIY YA. KAVUN, Elena I. Voit
B-43	Local structure and optical and electrical properties of amorphous Zinc-Iridium oxide thin films	J. PURANS, M. Zubkins, A. Azens, J.V. Gabrusenoks, R. Kalendarev,
B-44	Vibrational study of thermally ion-exchanged sodium borosilicate glasses	ELISSAIOS STAVROU, D. Palles, E.I. Kamitsos, A. Lipovskii, D. Taganzev, Y. Svirko, S. Honkanen

Properties of disordered materials		
B-45	The viscosity of binary Al-TM (TM: Ni/Co/Fe) melts	MENSHIKOVA SVETLANA, Lad`yanov V., Bel`tyukov A., and Korepanov A.
B-46	Dynamics of Quasi - Binary Liquid.	LEONID SON
B-47	Thermodynamic model and physical properties of Na2O - MgO - CaO-SiO2 glasses	MÁRIA CHROMČÍKOVÁ, Marek Liška, Jan Macháček
B-48	Glass transition process : a interrelation between kinetic, thermodynamic and structural features	VICTOR MINAEV, Sergey Timoshenkov, Sergey Novikov, Victor Kalugin and Damir Mukimov
B-49	Structural properties, topology and rigidity of soda-lime silicate glasses	OSCAR LAURENT, Matthieu Micoulaut Mathieu Bauchy Flavien Lahmar Marie Jeffroy Alexis Burdeau
B-50	Peculiarities of viscosity and solidification of the Cr-C melts near eutectic composition	IRINA V. STERKHOVA, Larisa V. Kamaeva
B-51	Mixed Alkali Effect on Vickers Hardness and Cracking	JOSEF ZWANZIGER, A. Mohajerani, Z. Brown

B-52	Viscosity of liquid amorphizing alloys of iron with boron and silicon	SVETLANA G. MENSHIKOVA, Vladimir I. Ladyanov, Anatoly L. Belâtyukov, Andrey I. Shishmarin
B-53	Strain rate effect on the mechanical property and microstructural evolution of Zr based metallic glass with and without reinforcement	TAO-HSING, CHEN, Tsung-Chieh Cheng, Te-Hua Fang
B-54	The influence of Si concentration on undercooling and crystallization of liquid Fe	IRINA V. STERKHOVA, Larisa Kamaeva
B-55	Dynamics of silver iodide-silver molybdate ionic glasses investigated by broadband dielectric spectroscopy	ANDREA MANDANICI, Maria Cutroni, Mauro Federico, Piercarlo Mustarelli, Cristina Armellini and Francesco Rocca

Chalcogenides		
B-56	The influence of In on photo-induced properties of Ge-Te-In chalcogenide thin films	VLADISLAVA IVANOVA, Andi Zaidan Yordanka Trifonova Plamen Petkov
B-57	Chemical order in GexAsySe1-x-y glasses probed by high resolution X-ray photoelectron	RONG-PING WANG, A.Smith, B.Luther-Davies, A. Kovalskiy, A.C.Miller and H.Jain
B-58	Properties and structural transformations in amorphous As-S-Se chalcogenide thin films	NATALIA KOROBOVA, Oleg Prikhodko, Nurlan Almasov, Konstantin Tsendin
B-59	Characterization of physical properties for Zn-doped Sb3Te films	GUOXIANG WANG, Xiang Shen, Qiuhua Nie, Tiefeng Xu, Shixun Dai
B-60	Investigation on Zn-Sb-Te phase-change material for phase change memory applications	XIANG SHEN, Guoxiang Wang, Qiuhua Nie, Tiefeng Xu, Shixun Dai
B-61	Selective Wet-Etching of Amorphous As-S-Se Thin Films	MIROSLAV VLCEK, L. Loghina, I. Voynarovych, A. Kovalskiy, H. Jain
B-62	Amorphous/crystalline transition in Te doped Ge2Sb2Se5 glass	ROMAN SVOBODA, Jan Gutwirth, Jiří Málek
B-63	Synchrotron XPS studies of illuminated and annealed flash evaporated a-Ge2S3 films.	VLADIMIR MITSA, Roman Holomb, Olexander Kondrat, Nataliya Popovych, Nataliya Tsud,Vladimir Matolín, Kavin Prince, Gabor Lovas, Stapan Petreckiy ,Sara Tóth
B-64	Structure of Amorphous As40Se30S30 Films Prepared by Different Methods	SANZHAR DUSEMBAYEV, Oleg Prikhodko, Alexander Ryaguzov, Suyumbika Maksimova, Nurlan Almasov, Valery Ushanov and Kunduz Turmanova

B-65	Structural Origin of Photoinduced Transformations on the Surface of Arsenic Sulfide Thin Films	ANDRIY KOVALSKIY, James York-Winegar Justin Oelgoetz Roman Golovchak Miroslav Vlcek Karel Palka Himanshu Jain
B-66	Se doped $Ge_2Sb_{2.3}Te_5$ thin films - influence of sputtering conditions on products of thermal crystallization	JAN GUTWIRTH, Petr Bezdička, Jan Přikryl, Tomáš Wágner, Miloslav Frumar