

(14) Ceramics and Glasses

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DETAILED PROGRAMME

Thursday, 19-12-2013

Session I : 10.15 – 11.15

10.15 - 10.45 Invited Talk (1)	Göktu Günkaya Arife Yurdakul Taner Kavas Emrah Dölekçekiç <u>Bekir Karasu</u>	ABS - Email - ICA Novel Glass Compositions for Concrete Reinforcement
10.45 - 11.00 Oral (1)	<u>Gajanan V Honnavar</u> S V Bhat and K P Ramesh *	ABS - 114 - IAC Insight into the bond length and crystal field variation in a mixed alkali glass: a Raman and EPR study.
11.00 - 11.15 Oral (2)	<u>Kitheri Joseph</u> and R. Asuvathraman	ABS - 246 - ICA Effect of BaO in the glass characteristics of a cesium loaded iron phosphate glass

Session II : 16.00 – 18.00

16.00 - 16.30 Invited Talk (2)	<u>A. Ghosh</u>	ABS - 834 - ICA Correlation of structure and ion transport properties in some glassy ionic conductors
16.30 - 16.45 Oral (3)	Priyanka K.P. Chandra A.R. Kulkarni and <u>K. Prasad</u>	ABS - 518 - ICA Structural and Electrical Properties of Perovskite $(1-x)\text{Ba}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3-x\text{BaTiO}_3$ Ceramics
16.45 - 17.00 Oral (4)	<u>AK Mudaiya</u> S B Patil	ABS - 1563 - ICA Design of Radiation Shielding Windows from High-Density Glass Blocks - A Promising Option
17.00 - 17.15 Oral (5)	<u>S. Balaji</u> , K. Biswas, A.D. Sontakke, D.Ghosh, G. Gupta and K.Annapurna	ABS - 639 - ICA Rare earth activated Fluoro-Tellurite glass: An efficient Down & Up Conversion concentrator for Solar cell application
17.15 - 17.30 Oral (6)	Ashima Hooda <u>Sujata Sanghi</u>	ABS - 671 - ICA Rietveld refinement, electrical and magnetic properties of modified $\text{SrFe}_{12}\text{O}_{19}$ hexaferrites
17.30 - 17.45 Oral (7)	Kaushik Biswas Atul D. Sontakke G. Gupta, S. Balaji, D.Ghosh and <u>K.Annapurna</u>	ABS - 679 - ICA A Novel Low Phonon Bi_2O_3 -ZnO-GeO ₂ Host: Glass Forming Ability and NIR-MIR Luminescence Properties

Friday, 20-12-2013

Session III : 10.15 – 11.15

10.15 - 10.45 Invited Talk (3)	<u>Ranjan Sen</u>	ABS - Email1 - ICA Recent Developments and Research Trends on Specialty Glasses and Optical Fibers
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10.45 - 11.00 Oral (8)	<u>Rashmi M Jogad</u> M. S. Jogad Rakesh Kumar S Asokan P S R Krishna G P Kothiyal and R D Mathad	ABS - 859 - ICA Electrical Switching behaviour of Sb ₂ Se ₃ -CuI chalcohalide glasses
11.00 - 11.15 Oral (9)	<u>T. Komatsu</u> and T. Honma	ABS - 876 - ICA Crystallization Control in Glass

Session IV : 11.45 – 13.15

11.45 - 12.15 Invited Talk (4)	<u>Sevi Murugavel</u>	ABS - 1299 - ICA Novel mesoporous bioactive glass and glass-ceramics: Influence of the local atomic structure on <i>in-vitro</i> bioactivity
12.15 - 12.30 Oral (10)	<u>Ishu Kansal</u> Allu Amarnath Reddy Dilshat U. Tulyaganov and José M.F.Ferreira	ABS - 896 - ICA Influence of alkali addition on the structure and biodegradation of phosphosilicate glasses
12.30 - 12.45 Oral (11)	<u>Anuraag Gaddam</u> Hugo R. Fernandes and José M. F. Ferreira	ABS - 1080 - ICA The role of manganese on structure, crystallization and sintering behaviors of Li ₂ O SiO ₂ glasses
12.45 - 13.00 Oral (12)	<u>Allu Amarnath Reddy</u> Dilshat U. Tulyaganov Maria J. Pascual Vladislav V. Kharton and José M. F. Ferreira	ABS - 1110 - ICA Effect of strontium for calcium substitution on the structure, crystallization behavior and functional properties of diopside based glasses

Session V : 14.00 – 15.30

14.00 - 14.30 Invited Talk (5)	<u>V. Sudarsan</u> A. Ananthanarayan and G. P. Kothiyal	ABS - 991 - ICA Structural studies on glasses using solid state NMR technique
14.30 - 14.45 Oral (13)	Manisha Upadhyay and <u>Sevi Murugavel</u>	ABS - 1299 - ICA Experimental evidence for presence of voids in phase change memory material
14.45 - 15.00 Oral (14)	<u>Atiar Rahaman Molla</u> Anal Tarafder Upender Gangadharini Madhumita Goswami G. P. Kothiyal and Basudeb Karmakar	ABS - 577 - ICA Zn ^{II} Te ^{VI} Semiconductor and Eu ⁺³ -ion Co-doped Glass Nanocomposites: Processing and Characterization

Poster Session :**Thursday, 19-12-2013, 14.00 - 15.30**

14 - Poster - 01	Kurusaroor Mana Manu and Mailadil Thomas Sebastian	Tape casting of low permittivity ceramic-glass composite for LTCC applications	ABS - 4 - ICA
14 - Poster - 02	Dr. M. Shadab Siddiqui, Pankaj Joshi, N. Nayak Ramandeep, K.Vidyasagar, Ramakanth K. Parkala	Thermal spraying and characterization of abradable seal coating for gas turbine for service temperatures up to 750°C	ABS - 55 - ICA
14 - Poster - 03	M. Mohapatra, B. Rajeswari, N.S.Hon, M.S. Keskar, R.M.Kadam and S.V. Godbole	Specification studies of Eu and Gd in $La_2Zr_2O_7$ pyrochlore	ABS - 148 - ICA
14 - Poster - 04	M. Mohapatra, A.K. Yadav, R.M. Kadam, R.K. Mishra, C.P. Kaushik, S.N. Jha, D. Bhattacharyya, B.S. Tomar and S.V. Godbole	Specification of Mn ions in Trombay Nuclear Waste Glass by ESR and XANES	ABS - 148a- ICA
14 - Poster - 05	A. Edukondalu, CH. Srinivasu, M.A. Samee, Syed Rahman, K. Sivakumar	Vibrational spectra and structure of tungsten based quaternary glasses	ABS - 215 - ICA
14 - Poster - 06	Jony Saha and Goutam De	Cubic mesoporous SiO_2 nanofibers by the electrospinning technique	ABS - 416 - ICA
14 - Poster - 07	Jobin Varghese, Mailadil Thomas Sebastian and Kuzhichalil Peethambharan Surendran	Room Temperature Healing Silica Ink for Printed Electronic Applications	ABS - 429 - ICA
14 - Poster - 08	Nibedita Samsal, Mrinmoy Garai, Atiar R. Molla, Anal Tarafder and Basudeb Karmakar	Influence of Lanthanum Oxide on the Properties of Alkaline–Earth Borosilicate Glass Based Solid Oxide Fuel Cell Sealant	ABS - 473 - ICA
14 - Poster - 09	Anal Tarafder, Atiar Rahaman Molla, Upender Gangadharini, and Basudeb Karmakar	Fabrication and properties of Eu_2O_3 Doped Transparent Willemite (Zn_2SiO_4) Glass-Ceramic Nanocomposites	ABS - 556 - ICA
14 - Poster - 10	M. Sathish and B. Eraiah	Elastic Properties of Nd_2O_3 doped LiCl-zinc-Borate Glass and Glass ceramics	ABS - 582 - ICA
14 - Poster - 11	Sunil Kumar S, K.P. Ramesh	AC conductivity and Dielectric studies in Alkali boro germanate glasses	ABS - 592 - ICA
14 - Poster - 12	S. Khasa, M.S. Dahiya, A. Agarwal, Ashima	Structure, Electrical and Thermal Properties of Lithium Vanadoxide Bismo-Borate Glasses	ABS - 664 - ICA

14 - Poster - 13	Jeewan Kumar, S.N.Choudhary, K. Prasad, R.N.P. Choudhary	Structural & electrical properties of lead-free $0.25\text{Ba}(\text{Bi}_{1/2}\text{Ta}_{1/2})\text{O}_3\text{-}0.75\text{BaTiO}_3$ ceramic	ABS - 707 - ICA
14 - Poster - 14	Jeewan Kumar, S.N. Choudhary C.Bharti and T.P. Sinha	Structural and electrical properties of $\text{Ba}[(\text{Fe}_{1-x}\text{Al}_x)_{1/2}\text{Nb}_{1/2}]\text{O}_3$ ceramic	ABS - 707a - ICA
14 - Poster - 15	R. Punia, R.S. Kundu, S.Murugavel and N. Kishore	Scaling behaviour of frequency dependent conductivity of bismuth modified zinc vanadate semiconducting glasses	ABS - 791 - ICA
14 - Poster - 16	C.R. Gautam and A.K. Yadav	Synthesis and Dielectric behavior of Ferroelectric $(\text{Ba}_x\text{Sr}_{1-x})\text{TiO}_3$ Borosilicate Glass Ceramics	ABS - 837 - ICA
14 - Poster - 17	Anil Kumar, S. Chandrasekar, S. Murugavel	Synthesis and characterization of zinc mesoporous bioactive glasses	ABS - 848 - ICA
14 - Poster - 18	L.Jyothi, E.Ramya, R. Kuladeep, G. Upender and D. Narayana Rao	Structural, Thermal, Optical properties and Simulation of White Light of Titanium- Tungstate-Tellurite Glasses Doped with Dysprosium	ABS - 849 - ICA
14 - Poster - 19	K.Swapna, Sk.Mahamuda, P.Packiyaraj, A. Srinivasa Rao and G. Vijaya Prakash	Luminescence Characterization of Eu^{3+} doped ZnAlBiB Glasses for Visible Red Lasers and LEDs	ABS - 850 - ICA
14 - Poster - 20	Sk.Mahamuda, K.Swapna, P.Packiyaraj, A. Srinivasa Rao and G. Vijaya Prakash	Lasing potentialities and white light generation studies of Dy^{3+} doped Zinc Alumino Fluoro Borate Glasses	ABS - 851 - ICA
14 - Poster - 21	N. Ahlawat, Rekha Kumari, Ashish Agarwal Monica Sindhu, Sujata Sanghi and Navneet Ahlawat	Electrical Properties of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{O}_{0.8}$ - $\text{Ba}_{0.05}\text{Ca}_{0.15}\text{TiO}_3$ Lead Free Ceramic	ABS - 911 - ICA
14 - Poster - 22	B. Rupa Venkateswara Rao, S. Sreeharisastry, T. Vishwam	Spectroscopic study of Chromium doped Alkali earth Lead Zinc Phosphate Glasses	ABS - 916 - ICA
14 - Poster - 23	S. Rani, S. Sanghi, N. Ahlawat, A. Agarwal and P. Godara	Influence of Bi^{3+} Ions on Optical Properties of Lithium Cadmium Bismuth Borate Glasses	ABS - 962 - ICA
14 - Poster - 24	Meenakshi Dult, R.S. Kundu, R. Punia, Sarita Sharma and N. Kishore	Optical properties of titanium containing bismuth silicate glasses: An approach to hydrogen excitonic model	ABS - 971 - ICA

14 - Poster - 25	Vinod E.M, K. Ramesh, R. Ganesan, K.S. Sangunni	Direct hexagonal transition of amorphous (Ge ₂ Sb ₂ Te ₅) _{0.9} Se _{0.1} thin films co	ABS - 984 - ICA
14 - Poster - 26	R. Raut Dessai, J.A.E. Desa, D. sen and S. Mazumder	Study of pores in a glass of compacted microspheres	ABS - 1071 - ICA
14 - Poster - 27	R.S. Kundu, J. Hooda, Kirti Nanda, R. Punia and N. Kishore	Optical Characterization of ZnO Modified SiO ₂ -Bi ₂ O ₃ Glasses	ABS - 1105 - ICA
14 - Poster - 28	G. Venkateswara Rao, Soumalya Bhattacharya and H.D. Shashikala	Synthesis of Silver nanoparticles embedded Calcium Phosphate Glass	ABS - 1221 - ICA
14 - Poster - 29	R.V. Barde and S.A. Waghuley	An Investigation of Ion Transport Properties in Vanadate Based Glass System	ABS - 1290 - ICA
14 - Poster - 30	Sunil Dhankhar, R.S. Kundu, Rajesh Punia, Meenakshi Dult and Nawal Kishore	Structural Characterization of Zinc Modified Bismuth Boro-Tellurite Glasses	ABS - 1295 - ICA
14 - Poster - 31	Kirti Nanda, R.S. Kundu, Rakesh Sharma, R. Punia and N. Kishore	Physical Properties and dc Conductivity of ZnO Modified MoO ₃ -V ₂ O ₅ Glasses co	ABS - 1338 - ICA
14 - Poster - 32	Subhashini, H.D. Shashikala, N.K. Udayashankar	Effect of temperature on certain physical and mechanical properties of alkali zinc borate glasses	ABS - 1450 - ICA
14 - Poster - 33	P. Kiran, N.K. Udayashankar and H.D. Shashikala	Effect of partial substitution of Na ₂ O in sol-gel derived SiO ₂ -CaO-P ₂ O ₅ glass system	ABS - 1551 - ICA
14 - Poster - 34	Sonal R. Prajapati, Supriya Kasyap, Arun Pratap	A Thermodynamic Approach towards Glass Forming Ability of Amorphous Metallic Alloys	ABS - 1684 - ICA
14 - Poster - 35	Rajaramakrishna R., Lakshmikantha, R., R.V. Anavekar	Electrical Conductivity of Li ₂ O doped lead zinc borate glass	ABS - Email - ICA
14 - Poster - 36	S.K. Ghosh, S.K. Rout	Structural, optical and microwave dielectric properties of ZnWO ₄ ceramics prepared by solid state reaction route	ABS - Email 1 - ICA