

(21) Composites

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DETAILED PROGRAMME**Monday, 16-12-2013****Session I : 10.15 – 11.15**

10.15 - 10.45 Invited Talk (1)	<u>Koteswararao V. Rajulapati</u>	ABS - Email - ICA Fabrication and Mechanical Properties of Aluminium based Bulk Nanocomposites
10.45 - 11.00 Oral (1)	<u>Tanmay K Ghorai,</u> Niladri Biswas	ABS - 56 - ICA Mesoporous Titania Modified Iron-Niobate Nanoclusters: Used as Catalysts for Reduction of 4-NP to 4-AmP
11.00 - 11.15 Oral (2)	M.S. Senthil Saravanan, M. Jagannatham, S.P. Kumaresh Babu, K. Sivaprasad	ABS - 115 - ICA Synthesis and characterization of carbon nanotubes reinforced AA 4032 composites by conventional and spark plasma sintering

Session II : 11.45 – 13.15

11.45 - 12.15 Invited Talk (2)	<u>B.C. Pai and</u> T.P.D. Rajan	ABS - 975 - ICA Development of Functional Metal Matrix Composites for Engineering Applications
12.15 - 12.30 Oral (3)	<u>M. Jagannatham,</u> M.S. Senthil Saravanan, Prathap Haridoss, S. Sankaran	ABS - 149 - ICA Fabrication of high performance Aluminium composites with carbon nanotubes by hot rolling
12.30 - 12.45 Oral (4)	S.N. Alam, <u>Harshpreet Singh</u>	ABS - 325 - ICA Development of Cu-Based Metal Matrix Composites by Mechanical Alloying Route
12.45 - 13.00 Oral (5)	<u>K. Vasanthakumar and</u> Srinivasa Rao Bakshi	ABS - 603 - ICA Hard <i>in-situ</i> Ti-TiC composites using Ti-CNT mixtures for high temperature applications
13.00 - 13.15 Oral (6)	Kathiresan, M. <u>Pandiarajan, P.,</u> Uthaya Kumar M.	ABS - 749 - ICA Experimental investigation of Mechanical Properties on Hybrid Composites

Session III : 16.00 – 18.00

16.00 - 16.30 Invited Talk (3)	<u>Arvind Kumar Saxena</u>	ABS - Email - ICA Multifunctional Precursor Materials for SiC Ceramics
16.30 - 17.00 Invited Talk (4)	<u>Rie Nakamura,</u> Shouhei Sakurda, Koichi Goda	ABS - Email - ICA Estimation of Migration Structure in Ramie Twisted Yarn and its Mechanical Properties
17.00 - 17.15 Oral (7)	<u>N.Chandrasekar and</u> Har Narayan Upadhyay	ABS - 753 - ICA Hamiltonian approach for effective medium parameters of Electromagnetic Metamaterials
17.15 - 17.30 Oral (8)	<u>Sreedevi Varam,</u> Koteswararao V. Rajulapati and K. Bhanu Sankara Rao	ABS - 854 - ICA Mechanical characterization of in-situ consolidated nanocrystalline Al-Pb-W alloy

17.30 - 17.45 Oral (9)	<u>Tara Sen,</u> H.N. Jagannatha Reddy and Ashim Paul	ABS - 118 - ICA Durability study of sisal and jute FRP composites and its comparison with glass FRP composite
17.45 - 18.00 Oral (10)	<u>Ravi P. Khandelwal,</u> Anupam Chakrabarti, and Pradeep Bhargava	ABS - 141 - ICA Coupled Electro-Mechanical Analysis of Laminated Composite Plates

Tuesday, 17-12-2013

Session IV : 10.15 – 11.15

10.15 - 10.45 Invited Talk (5)	<u>S.V. Joshi</u>	ABS - Email - ICA Exciting prospects for hybrid plasma spraying of composite coatings employing powders and solution precursors
10.45 - 11.00 Oral (11)	<u>N. Mohan, C.R. Mahesha,</u> S.Natarajan, S.P. Kumaresh Babu	ABS - 275 - ICA Effect of Jatropha oil Cake on Two-body abrasive Wear Behaviour of E-Glass Epoxy Composite Materials
11.00 - 11.15 Oral (12)	<u>D.K. Rathore, S. Sethi</u> and B.C. Ray	ABS - 1298 - ICA Implications of temperature and loading rate on mechanical performance of glass fiber reinforced polymer composites

Session V : 11.45 – 13.15

11.45 - 12.15 Invited Talk (6)	<u>Anil Kumar</u>	ABS - Email - ICA Ceramic materials and composites for missile applications: R&D at ASL-DRDO
12.15 - 12.30 Oral (13)	<u>K.K. Mahato, S. Sethi</u> and B.C. Ray	ABS - 1433 - ICA An assessment of loading rate sensitivity of fibre reinforced polymer composites at low temperatures
12.30 - 12.45 Oral (14)	<u>Sukanta Das, GC Nayak,</u> PC Routray, SK Sahu, A.K. Roy	ABS - 236 - ICA Development of Multi Layers RADAR absorbing materials for minimization of RF Hazard in Test Range
12.45 - 13.00 Oral (15)	<u>N.S. Karthiselva,</u> B.S. Murty, Srinivasa Rao Bakshi	ABS - 295 - ICA Reaction Spark Plasma Sintering of ZrB ₂ -TiB ₂ Ultra High Temperature Ceramic Composites
13.00 - 13.15 Oral (16)	<u>Tripurari P. Sinha</u>	ABS - 339 - ICA Optical dielectric function and vibrational modes of perovskite oxides

Session VI : 16.00 – 18.00

16.00 - 16.15 Oral (17)	<u>Moumita Pal,</u> Susanta Bera, Saswati Sarkar and Sunirmal Jana	ABS - 540 - ICA Sol-Gel Based Nanostructured Al-doped Zinc Oxide Films on Glass: Doping Effect on Microstructural, Optical and Photocatalytic Properties
16.15 - 16.30 Oral (18)	<u>Supratim Suin,</u> Nilesh K. Shrivastava and B.B. Khatua	ABS - 616 - ICA Optically Transparent and Mechanically Improved Polycarbonate/clay Nanocomposites using Phosphonium Modified Organoclay

16.30 - 16.45 Oral (19)	<u>K. Nomita Devi</u> , S. Bobby Singh and H. Basantakumar Sharma	ABS - 661 - ICA Characterization of ZnO-ZnS nanocomposites synthesized by chemical co-precipitation method
16.45 - 17.00 Oral (20)	<u>S.M. Bansod</u> and K. Singh	ABS - 690 - ICA Preparation and Characterization of Proton-Conducting Phosphoric Acid-Doped Silica Gel Electrolyte for Secondary Battery at Room Temperature
17.00 - 17.15 Oral (21)	<u>Kathiresan M.</u> , Bhaskaran, P.G., Sankara Subramaniam	ABS - 749a - ICA Investigation on the Properties of Aluminium-Copper-Magnesium-Graphite Metal Matrix Composite
17.15 - 17.30 Oral (22)	<u>S Chakraborty</u> , P.K. Das	ABS - 760 - ICA Hot Pressed Sintering and Characterization of ZrB ₂ Composites
17.30 - 17.45 Oral (23)	<u>Manish Patel</u> , V.V. Bhanu Prasad and Vikram Jayaram	ABS - 789 - ICA Thermal and electrical behaviour of monolithic ZrB ₂ and ZrB ₂ -SiC composites
17.45 - 18.00 Oral (24)	<u>Neha Gupta</u> , Venkitanarayanan Parameswaran and Bikramjit Basu	ABS - 882 - ICA Processing and Property Evaluation of Spark Plasma Sintered TiB ₂ -Ti based Bilayered Graded Material

Wednesday, 18-12-2013

Session VII : 10.15 – 11.15

10.15 - 10.45 Invited Talk (7)	<u>S.M. Manocha</u>	ABS - Email - ICA Development of micro/nano reinforcement Ceramic matrix composites through sol-gel route
10.45 - 11.00 Oral (25)	<u>Sri Harini R.</u> , Susanta Kumar Nayak, Jayakrishnanan Nampoothiri, Baldev Raj, Ravi K.R.	ABS - 989 - ICA Ultrasonic Melt Treatment Aided <i>In-situ</i> Synthesis of Al-4.4Cu-2TiB ₂ Nanocomposite
11.00 - 11.15 Oral (26)	<u>Ankur Goswami</u> , Bharathi Rajeswaran, Arun M.Umarji Giridhar Madras	ABS - 1164 - ICA Ceramic Microfabrication by Scanning based Microstereolithography

Session VIII : 11.45 – 13.15

11.45 - 12.15 Invited Talk (8)	<u>R.B. Mathur</u>	ABS - Email - ICA Role of carbon materials in generation and storage of clean energy
12.15 - 12.30 Oral (27)	<u>Benedict Thomas</u> , Prasad K Inamdar and Tarapada Roy	ABS - 1441 - ICA Effect of Temperature Distributions on the Stresses Developed in a Carbon
12.30 - 12.45 Oral (28)	<u>Sushilendra R M.</u> , R M Kulkarni, Amith V, G B Rudrakshi and H N Narasimhamurthy	ABS - 1475 - ICA Drillability studies of Carbon black/vinylester/Glass composites using Design of Experiments

12.45 - 13.00 Oral (29)	<u>J. Palaniappan</u>	ABS - 593 - ICA Sensitivity of Chirped FBG sensor in disbond detection of adhesively bonded composite joint – Analytical study
13.00 - 13.15 Oral (30)	<u>K. Sangeetha</u> and E.K. Girija	ABS - 1204 - ICA In-situ formation of substituted hydroxyapatite - gelatin nanocomposite for bone tissue engineering applications

Session IX : 16.00 – 18.00

16.00 - 16.15 Invited Talk (9)	<u>Kerimkulova A.R.</u> , Azat S., <u>Mansurov Z.A.</u>	ABS - 540 - ICA Nano-and macroporous carbons for separation and purification
16.15 - 16.30 Oral (31)	<u>M. Revanasiddappa</u> , D. Siddalinga Swamy and S.C. Raghavendra	ABS - 1399 - ICA EMI Shielding effectiveness studies on Polyaniline/MnO ₂ /PVA Composites Free Standing Thin Films
16.30 - 16.45 Oral (32)	<u>P.S. Jadhav</u> , V. Phadatare, K.K.Patankar, V.L.Mathe, Vijaya Puri	ABS - 1568 - ICA Structural and ME properties of Magnetoelectric composites as a Transducers
17.15 - 17.30 Oral (33)	<u>S. Senthilrajan</u>	ABS - Email - ICA Experiment and numerical analysis of Tensile Properties of Hybrid Composites
16.45 - 17.00 Oral (34)	<u>M. Mubarak Ali</u> and V. Raj	ABS - 123 - ICA Morphological and Compositional Analysis of Nanostructural Ceramic Coatings on Aluminium
17.00 - 17.15 Oral (35)	<u>B.T. Lesbayev</u> , G.T. Smagulova, M.G. Solovyova, M. Nazhipkyzy, N.G. Prikhodko, Z.A. Mansurov	ABS - 1373 - ICA Producing of Hydrophobic Composite Materials with usage of Soot of Polyethylene Waste

Poster Session :

Monday, 16-12-2013, 14.00 - 15.30

21 - Poster - 01	A. Koppalkar R.Anilkumar B. Ramesh Patil C. Aashis.S.Roy and Shrikant Ekhelkar	AC Conductivity Studies of ZnTiO ₃ Doped Polyaniline composites	ABS - 31 - ICA
21 - Poster - 02	Ajay Kumar Satish V.Kailas	Fabrication and Property of In-situ Cross Linked Polymer Derived Ceramics (PDC) Reinforced Copper Matrix Composites by High Shear Powder Consolidation	ABS - 107 - ICA
21 - Poster - 03	Tara Sen and H.N.Jagannatha Reddy	Confinement strength and confinement modulus study of concrete cylinders confined with bio-fibre reinforced polymer composite	ABS - 118 - ICA
21 - Poster - 04	Ajay Kumar Anupam Chakrabarti and Pradeep Bhargava	Vibration of laminated composite skew shells with cutouts	ABS - 136 - ICA

21 - Poster - 05	Ashish R. Tanna and Hiren H. Joshi	Influence of High Energy Mechanical Milling on Dielectric and Magentoelectric Properties of 25%(Mn _{0.5} Cu _{0.5} Fe ₂ O ₄)75%[Ca _{0.1} Ba _{0.9} Zr _{0.1} Ti _{0.9} O ₃] multiferroic composite	ABS - 314 - ICA
21 - Poster - 06	V. P. Singh and Chandana Rath	Hexagonal to Monoclinic Structural Transformation accompanied with intense White light emission in SrAl ₂ O ₄ induced by ZnO	ABS - 396 - ICA
21 - Poster - 07	Manish Kumar S. Gangolu A.G. Rao, N. Prabhu V.P. Deshmukh B.P. Kashyap	Effect of Particulate Size on High Temperature Flow Properties of Aluminum -5% Boron Carbide Composites	ABS - 572 - ICA
21 - Poster - 08	S.M. Tazhibayeva K.B. Korzhynbayeva K.B.Musabekov A.A.Zhubanova	Adsorption of Metal Ions on The Surface of The Compositional Biosorbents	ABS - 590 - ICA
21 - Poster - 09	Jithin Raj Nandu. R. Krishnan G.L. Aswinikumar Shilpa Ajith, V.R. Rajeev K. Jayaraj	A statistical study on the dry reciprocating wear characteristics of A319/ (0-0.1) wt.%Sr modified alloy	ABS - 662 - ICA
21 - Poster - 10	G. Logesh and M. Balasubramanian	Processing and properties of carbon fiber reinforced reaction bonded silicon nitride composites	ABS - 767 - ICA
21 - Poster - 11	Manjusha Meera Rawat and K L Yadav	The effect of Sintering Temperature on Dielectric and Ferroelectric properties of CoFe ₂ O ₄ – BaTiO ₃ composite	ABS - 814 - ICA
21 - Poster - 12	Ravi V. Ingle Sandeep A. Arote Vilas A. Tabhane and Habib M. Pathan	The Composite of Cadmium Sulfide with Polyaniline in presence of Aqueous Acidic solvent	ABS - 821 - ICA
21 - Poster - 13	R. M. Kulkarni H. N. Narasimha Murthy G. B. Rudrakshi	Parametric Study of Twin Screw Extrusion for Processing Epoxy/Carbon Black Nanocomposites Using Orthogonal Array Technique	ABS - 855 - ICA
21 - Poster - 14	Mini V and Archana K Raghu S Subramanya K Sharanappa C Revanasiddappa M Devendrappa H	Dielectric Study of Polyaniline-nano clay composites	ABS - 861 - ICA
21 - Poster - 15	S.N.Alam Lailesh Kumar	Synthesis of EG and Development and Characterization of Zn-EG Nanocomposites	ABS - 936 - ICA
21 - Poster - 16	K.A. Vijayalakshmi M.Revanasiddappa K.Vanitha and S.C. Raghavendra	Synthesis and Characterization of Free Standing Thin Film of Polyaniline / FA / Ag Nano composites Induced by DC Glow Discharge Plasma	ABS - 943 - ICA

21 - Poster - 17	S. K. Suman K.A. Dubey Y.K. Bhardwaj Murali Seshadri, R.K.Gopalakrishnan	Radiation crosslinking of polydimethylsiloxane/ Bi ₂ O ₃ composites: Polymer-filler interaction and Gamma Attenuation Efficiency	ABS - 965 - ICA
21 - Poster - 18	S.Manocha Valay Solanki L.M.Manocha	Studies on Synthesis of ABS/ Nanoclay composites for Enhancement of Mechanical property	ABS - 988 - ICA
21 - Poster - 19	L. M. Manocha H. L. Gajera and S. Manocha	Development and Characterization of Graphene Oxide loaded ABS Nanocomposite Micro fibers	ABS - 988a - ICA
21 - Poster - 20	L. M. Manocha Milan M. Vyas Manocha and P. M. Raole	Enhancing the thermal and mechanical properties of Carbon-Ceramic composites by addition of nanoparticles	ABS - 988b - ICA
21 - Poster - 21	L.M. Manocha Arpana Basak S. Manocha	Insitu Growth of Carbon Nanotubes Reinforced –Carbon fiber/SiC Composites	ABS - 988c - ICA
21 - Poster - 22	R. NareshKumar V. V. S. S. Srikanth S. B. Chandrasekhar, Balaji Padya and P. K. Jain	Morphological, Structural and Phase Characteristics of Hot Extruded MWCNTs/Cu Composites	ABS - 1112 - ICA
21 - Poster - 23	Bommi Varalakshmi and Vadali V. S. S. Srikanth	Critical Strain Energy Release Rate of the Crack Evolution in Diamond / β -SiC Nanocomposite Thin Film	ABS - 1112a - ICA
21 - Poster - 24	Debmalya Roy <i>Neeru Tiwari</i> Kingsuk Mukhopadhyay and Arvind Kumar Saxena	Immobilized nanotube in exfoliated graphite: Synthesis, characterization and its composite application	ABS - 1193 - ICA
21 - Poster - 25	Shubhalakshmi Sengupta Dipa Ray and Aniruddha Mukhopadhyay	Value-Added Composites from Recycled Polypropylene and Fly Ash using Green Coupling Agents	ABS - 1253 - ICA
21 - Poster - 26	S. Anthonysamy Ashish Jain	Kinetics of oxidation of boron carbide powder	ABS - 1277 - ICA
21 - Poster - 27	R. H. Joshi, A. B. Patel N.K. Bhatt, B.Y. Thakore and A.R. Jani	Structural Phase Diagram of NbC	ABS - 1287 - ICA
21 - Poster - 28	A. Nithya and K. Jothivenkatachalam	Synthesis, Characterization and Photocatalytic activity of Copper Oxide-Chitosan nanocomposite	ABS - 1289 - ICA
21 - Poster - 29	Nadendla Srinivasababu J. Suresh Kumar and K. Vijaya Kumar Reddy	Experimental Surveillance of Variation in the Mechanical Properties of Astonishing Diverse Abelmoschus Esculentus 2405133 Variety Fibre Reinforced Polyester Composites	ABS - 1389 - ICA

21 - Poster - 30	N. Bikshamaiah Y. Srinivas D. Suresh Kumar N. Mohan Babu B. Ashok, S. Ramesh, A. V. Sessa Sainath K. Madhukar	Nanocomposites of Polyamide 6/Poly (methyl methacrylate)/Functionalized and Non-functionalized Single Wall Carbon Nanotubes and Their Compatibilization	ABS - 1409 - ICA
21 - Poster - 31	D. Suresh Kumar N. Mohan Babu B. Ashok A. V. Sessa Sainath K. Madhukar	Development of Novel Thermoplastic Starch Nanocomposites Based on Graphene Oxide	ABS - 1409a - ICA
21 - Poster - 32	Kerimkulova A.R Azat S, Mansurov Z.A	Nano-and Macroporous Carbons For Separation And Purification	ABS - 1437 - ICA
21 - Poster - 33	Amith.V R.M.Kulkarni Sushilendra Mutalikdesai G.B. Rudrakshi H.N.NarshimaMurthy	Drillability Studies of Nanoclay-Epoxy-Glass composites using Design of Experiments	ABS -1543 - ICA
21 - Poster - 34	Komal Chawla Dr. Alok P.S. Chauhan	Studies on Synthesized Polyvinylalcohol/ Carbon Composite	ABS - 1647 - ICA
21 - Poster - 35	Abhijit De	Correlated Features in Polymer based Magnetic Nanocomposites	ABS - Email - ICA
21 - Poster - 36	Anup Kale Yuping Bao Ziyou Zhou Peter E Prevelige and Arunava Gupta	Bacteriophage P22 as nano-platform for ordered self-assembly and morphology-controlled synthesis of CdS quantum dots	ABS - Email 1 - ICA
21 - Poster - 37	Gurbinder Kaur Gary Pickrell and Dan Homa	Composite seals and their interaction with YSZ and Crofer 22 APU for planar solid oxide fuel cells.	ABS - Email 2 - ICA
21 - Poster - 38	K. P. Adhi	Growth and characterization of pulsed laser deposited Al doped ZnO thin films on c-Al ₂ O ₃ and SiOx/Si (100) substrates	ABS - Email 3 - ICA
21 - Poster - 39	V. Balasubramani S. Rajendra Boopathy	Experimental Investigation on Flexural Properties of Laminated Composite Materilas	ABS - Email 4 - ICA
21 - Poster - 40	Vivek Pandey Meeta Trivedi Vinay Khandelwal, Gaurav Manik	Development of Performance Pressure Sensitive Adhesives (PSAs)	ABS - Email 5 - ICA