

National Conference
on
Advanced Polymers, Fibers and Fabrics
(APF²-2011)

Venue: Auditorium
Defence Materials & Stores Research & Development
Establishment
(DMSRDE) Kanpur-208013

Monday, 26th December 2011

0830 hrs. – 0955 hrs.	Registration
1000 hrs. – 1015 hrs.	Invocation and Lighting of Lamp
1015 hrs. – 1040 hrs.	Welcome Address: Dr. A. K. Saxena, Director, DMSRDE and Chairperson, APF² -2011
1040 hrs. – 1045 hrs.	Release of Souvenir
1045 hrs. – 1100 hrs.	Chief Guest Address: Dr. K. Sekhar, CC R&D (MS & LIC), DRDO
1100 hrs. – 1115 hrs.	Keynote Address: Dr. M. K. Sridhar, NAL, Bangalore
1115 hrs. – 1130 hrs.	Vote of Thanks: Dr. Sarfaraz Alam, Convenor, APF² -2011
1200 hrs. – 1215 hrs.	Plenary Lecture: Prof. Sukumar Maiti, IIT, Kharagpur
1215 hrs. – 1230 hrs.	High Tea
1230 hrs. – 1300 hrs.	Invited Talk Prof. Veena Choudhary, IIT, Delhi
1300 hrs. – 1330 hrs.	Invited Talk Prof. C. K. Das, IIT, Kharagpur
1330 hrs. – 1425 hrs.	Lunch

Invited Lectures & Oral Presentations (Parallel Sessions)

APF²-2011, DMSRDE, G.T. Road, Kanpur
1st Day, Monday, December 26, 2011

Session-1 (Auditorium Hall) Polymer Synthesis and Characterization –I

- 1430 hrs. – 1500 hrs. **Chairman: Prof. B. K. Behra – IIT Delhi**
Invited Talk - 1
Dr. S. K. Dhawan, NPL, Delhi
/ Dr. Ashok Ranjan, DMSRDE, (Session Co-ordinator)
Designing of Conducting Polymers and Their Composites in EMI Shielding Applications
- 1500 hrs. – 1515 hrs. **Mohit Gautam**
Nanoscale Infrared Spectroscopy of Crystalline and Non-Crystalline Microdomains of A Biodegradable Poly (3-Hydroxybutyrate) Copolymer
- 1515 hrs. – 1525 hrs. **Syed Ishraque Ahmad**
Synthesis and Characterization of Functionalized Polysaccharide Based Iodine Complex
- 1525 hrs. – 1535 hrs. **Ajit Shankar Singh**
Synthesis and Thermal Analysis of Novel N-Aryl, N'-Allyl - Carbazole and N-Aryl, N'-Allyl -Fluorene Based Thermosetting Polymers
- 1535 hrs. – 1550 hrs. **Mukesh Kumar Singh**
Influence of Organo-Phosphorous Based Flame Retardant Melt Additives on Thermo-mechanical behaviour of PET fibres.
- 1550 hrs. – 1600 hrs. **R.K. Gupta**
Preparation of SiC Foam Using Acrylate Modified Polycarbosilane

Session-2 (Kothari Hall) Rheology and Processing of Polymers–I

- 1430 hrs. – 1500 hrs. **Chairman: Prof. R. P. Singh, Ex VC Lucknow University**
Invited Talk - 2
Prof. M. G. H. Zaidi, G.B. Pantnagar University
/ Dr. S. M. Abbas, DMSRDE, (Session Co-ordinator)
Processing of Nanomaterials in Supercritical Fluids
- 1500 hrs. – 1515 hrs. **M. Nasim**
Preparation and Evaluation of properties of Polyimide/ Bridged polysilsesquioxane Nanocomposite Films
- 1515 hrs. – 1530 hrs. **P. N. Mohanadas**
Low Temperature Vulcanizing Fibre Reinforced Elastomer for Underwater Applications
- 1530 hrs. – 15.45 hrs. **Rakesh Ranjan**
Evaluation of Thermophysical Properties of High Temperature Ceramic Matrix Composites (HTCMC) for Space Applications
- 15.45 hrs. – 16.00 hrs. **Anurag Kamal**
Polycarbosilane derived C/C-SiC Hybrid Composites for High Temperature Space Applications

1600 hrs. – 1615 hrs : **Tea**

Session-3 (Auditorium Hall) Polymeric Fibers and Fabrics-I

- 1615 hrs. – 1645 hrs. **Chairman: Dr. S. K. Dhawan, NPL, Delhi**
Invited Talk - 3
Prof. B. K. Behra – IIT Delhi
/Mr. A. K. Yadav, DMSRDE, (Session Co-ordinator)
3D woven fabrics
- 1645 hrs. – 1655 hrs. **Minakshi Sultania**
Studies on the Thermal, Mechanical and Morphological Characteristics of Laminates based on Vinyl Ester Resin and Glass Fabric
- 1655 hrs. – 1705 hrs. **Hemant Kumar Shukla**
Investigating the Orientation Drawing in Wet Spinning Process of Polyacrylonitrile Co-Polymer Precursor Fibre for Carbon Fibre
- 1705 hrs. – 1715 hrs. **Chetan Kumar Gautam**
Special Composite Underground Shelter for NBC Protection
- 1715 hrs. – 1730 hrs. **Alok Kumar**
Ultraviolet Absorbers for Textiles
- 1730 hrs. – 1740 hrs. **Arun Kumar Singh Gangwar**
Maximum Realization of PV Blends through Optimizing the processibility of PV Fibres at Carding Stage
- 1740hrs. – 1810 hrs. **Harshvardhan Sharma (Special Oral Talk),**
High Performance Light weight using Dyneema

Session-4 (Kothari Hall) Polymer Blends, Composites and Nanocomposites-I

- Chairman: Prof. M. G. H. Zaidi, G.B. Pantnagar University**
- 1615 hrs. – 1645 hrs. **Invited Talk - 4**
Prof. R. P. Singh, Ex VC Lucknow University
/Dr. R. Ramani, DMSRDE, (Session Co-ordinator)
Fire Retardant Liquid Crystalline thermosets and Their Nanocomposites
- 1645 hrs. – 1655 hrs. **R. Ramani**
Nanoscopic Homogeneity in PEEK/PEI Blend: A free Volume Approach
- 1655 hrs. – 1705 hrs. **A.S. Parihar**
Evaluation of Thermal Conductivity of Ceramic and Micro Porous Thermal Insulating Materials at Elevated Temperatures and Their Applications
- 1705 hrs. – 1715 hrs. **Dibyendu S. Bag**
Study of Nonlinear Optical (NLO) Properties of Chiral Copolymers of (S)-N-(1-Phenyl-Ethyl) Methacrylamide and Disperse Red 1 Methacrylate
- 1715 hrs. – 1725 hrs. **Atul Rajan**
Effect of Compatibilizer on Physico-mechanical Behaviour of Poly (ethylene-co-vinylacetate) / High Density Polyethylene Blends
- 1725 hrs. – 1735 hrs. **Jonaki Mukherjee**
Deposition of SiC Coating on Silicon Wafer with Liquid Polycarbosilane (PCS)
- 1735 hrs. – 1745 hrs. **A. Ramakrishna**
Up-Scaling and Characterization of Breathable Films for Modified Atmosphere Packaging (MAP) of Fresh Produces
- 1745 hrs. – 1800 hrs. **Honeywell (Special oral talk)**

1600 hrs. – 1830 hrs.
1900 hrs. – 2030 hrs.
2030 hrs. – 2130 hrs

Poster Session
Cultural Programme
Dinner

Invited Lectures & Oral Presentations (Parallel Sessions)

APF²-2011, DMSRDE, G.T. Road, Kanpur
2nd Day, Tuesday, December 27, 2011

Session-5 (Auditorium Hall) Polymer Synthesis and Characterization –II

0930 hrs. – 1000 hrs. **Chairman: Dr. A. B. Samui, NMRL, Ambernath**
Invited Talk - 5
Prof. S. Pulsule, IIT Roorkee
/Dr. S. K. Tripathi, DMSRDE, (Session Co-ordinator)
Macromolecular Micro Composites

1000 hrs. – 1015 hrs. **A. Alakanandana**
Structural and Electrical Conductivity Studies of Pure and Doped Poly Vinyl Alcohol (PVA) Polymer Electrolyte Films.

1015 hrs. – 1030 hrs. **Udayan De**
Characterization and Modification of Polymers for Applications

1030 hrs. – 1045 hrs. **Tarun Kumar Pardhi**
Kinetics of Aqueous Slurry Polymerization and Designing of Polymer Recipe for Continuous Polymerization

1045 hrs. – 1100 hrs. **Sumaiya Hasnain**
Development of Biologically Active Metal Containing Polyurea from Thiosemicarbazide and Hexamethylenediisocyanate

Session-6 (Kothari Hall) Rheology and Processing of Polymers–II

0930 hrs. – 1000 hrs. **Chairman: Dr. P. D. Gupta, Manipal University**
Invited Talk - 6
Dr. S. A. R. Hashmi, RRL Bhopal
/ Dr. Mukesh Sinha, DMSRDE, (Session Co-ordinator)
Decisive Parameters for Controlling Concentration Profile of FGPC

1000 hrs – 1030 hrs **Invited Talk**
Dr. R.P. Tandon, Delhi University
EMI Shielding of Graphite/ABS Composites

1030 hrs. – 1040 hrs. **Neelambika Ramannavar**
Thermoplastics as Dispersing Agents for Carbon Nanotubes:
Rheology and Thermal Properties of Epoxy-Based Nanocomposites

1040 hrs. – 1050 hrs. **Neelima Tripathi**
Stereo-Poly (lactic acid): New Generation Biodegradable Polymer for Engineering Applications

1050 hrs. – 1100 hrs. **Praveer Verma**
Optimized Hybrid Composites for Aero-Structures

1100 hrs. – 1125 hrs.

Tea

Session-7 (Auditorium Hall) Polymeric Fibers and Fabrics-II

- 1130 hrs. – 1200 hrs. **Chairman: Prof. S. Pulsule, IIT Rorkee**
Invited Talk -7
Dr. A. B. Samui, NMRL, Ambernath
/Dr. R. K. Tiwari, DMSRDE, (Session Co-ordinator)
Molecular Imprinting Polymer
- 1200 hrs. – 1215 hrs. **Ankita Srivastava**
Optimization of Body Armor Performance using Response Surface Analysis
- 1215 hrs. – 1230 hrs. **A. K. Yadav**
Ultraviolet Radiation Protective Clothing
- 1230 hrs. – 1245 hrs. **H. Ashvin Kumar**
Some Critical Aspects in Mechanical Testing of Carbon Fibers
- 1245 hrs. – 1300 hrs. **K K Gupta**
Studies on Microwave Interactive Properties of Carbon Nanotubes in Polyurethane Coated fabrics
- 1300 hrs. – 1315 hrs. **Jyoti Joshi**
Smart Clothes for Military Personnel
- 1315 hrs. – 1330 hrs. **V.R. Giri Dev**
Production of Micro Fibrous web by Centrifugal Spinning System for Bio Medical Applications

Session-8 (Kothari Hall) Polymer Blends, Composites and Nanocomposites-II

- 1130 hrs. – 1200 hrs. **Chairman: Dr. S. A. R. Hashmi, RRL Bhopal**
Invited Talk – 8
Dr. P. D. Gupta, Manipal University
/Dr. D. N. Tripathi, DMSRDE, (Session Co-ordinator)
Role of Biofibers in Health
- 1200 hrs. – 1230 hrs. **Prakash C. Srivastava (Special Oral talk)**
Synthesis, crystal structure and third-order nonlinear optical (NLO) properties of some ribbons, stairs and polymers of organotelluriums
- 1230 hrs. – 1245 hrs. **Prashant Singh**
A Novel ABA type Gold Copolymer Nanoparticles: PNIPAAm-b-PU-PNIPAAm tri-block Nanopolymer as Reducing and Stabilizing Agent
- 1245 hrs. – 1255 hrs. **Shikher**
Physico-Mechanical Properties of Acrylonitrile-Butadiene- and Polycarbonate Blend
- 1255 hrs. – 1305 hrs. **D. Rajamani**
Bismaleimide/Rice Husk Silica Composites – Kinetics of Curing by DSC
- 1305 hrs. – 1315 hrs. **C.M. Bhuvanewari**
Study and Evaluation of Fluorosilicone - Silicone Elastomer Blend as Aeroengine Seal
- 1315 hrs. – 1330 hrs. **A.R. Subrahmanyam**
Mechanical and Electrical Conductivity Studies of PANI-PVA and PANI-PEO Blends

1330 hrs. – 1425 hrs

Lunch

Session-9 (Auditorium Hall) Polymer Synthesis and Characterization –III

Chairman: Dr. V.S. Tripathi, Ex-Jt. Director, DMSRDE

- 1430 hrs. – 1500 hrs. **Invited Talk - 9**
Dr. A.B. Mathur, Reliance industries
/ Shri. Shilendra Kumar Yadav, DMSRDE, (Session Co-ordinator)
Development of High Performance Polyolefins through Effective Utilization of Macromolecules
- 1500 hrs. – 1515 hrs. **S.B. Kulkarni**
Room Temperature LPG Sensing Polyaniline-ZnO Composite Thin Film Electrodes
- 1515 hrs. – 1530 hrs. **Shrawan Kumar Shukla**
Synthesis of Biomasses Polymer from Renewable Resource Material
- 1530 hrs. – 1545 hrs. **R.P. Ingale**
Comparison of Organic Corrosion Inhibitor with Zinc
- 1545 hrs. – 1600 hrs. **Sheeja Sunil**
Effect of dodecylmercaptan in acrylonitrile-copolymerisation

Session-10 (Kothari Hall) Rheology and Processing of Polymers–III

Chairman: Prof. Rani Joseph, Cochin Univ of S&T, Kochi

- 1430 hrs. – 1500 hrs. **Invited Talk - 10**
Dr. M. Patri, NMRL, Ambernath
/ Mr. Praveer Varma, DMSRDE, (Session Co-ordinator)
Polymer Electrolyte Membranes for Electrochemical Application
- 1500 hrs. – 1515 hrs. **G.B.Nando**
Development of Shape Memory Polymer Composites for Morphing Aero Structures
- 1515 hrs. – 1530 hrs. **V. P. Sharma**
Quality Assurance and Strategies for Monitoring: Pesticides and Phthalates
- 1530 hrs. – 1545 hrs. **Avinandan Mandal**
Effect of BaTiO₃ on the Microwave Absorbing Properties of Co-doped Ni-Zn Ferrite Composites
- 1545 hrs. – 1600 hrs. **Pranav Kumar Gutch**
Poly N-chloromaleimide: An Efficient Decontaminating Reagent for Sulfur Mustard

1600 hrs. – 1615 hrs

Tea

Session-11 (Auditorium Hall) Polymeric Fibers and Fabrics-III

Chairman: Dr. A.B. Mathur, Reliance industries

- 1615 hrs. – 1645 hrs. **Invited Talk - 11**
Dr. V.S. Tripathi, Ex-Jt. Director, DMSRDE
/ Mr. Darshan Lal, DMSRDE, (Session Co-ordinator)
Porous and Non Porous Carbon Nano Fibers for Environmental Remediation and Catalytic Applications
- 1645 hrs. – 1700 hrs. **V. Naveen**
Effect of Stress and Residence Time on the Stabilization of Acrylic Fibers
- 1700 hrs. – 1715 hrs. **T.V. Sreekumar**
Polyester Fibres for High Performance
- 1715 hrs. – 1730 hrs. **N. Prakash**
Nanofibers of Novel Photocrosslinkable Thermotropic Liquid Crystalline Copolyesters from 4, 4'-Diazobenzoic acid

Session-12 (Kothari Hall) Polymer Blends, Composites and Nanocomposites-III

Chairman: Dr. M. Patri, NMRL, Ambernath

- 1615 hrs. – 1645 hrs. **Invited Talk - 12**
Prof. Rani Joseph, Cochin Univ of S&T, Kochi
/ Dr. (Mrs.) Tandra Nandi, DMSRDE, (Session Co-ordinator)
- 1645 hrs. – 1700 hrs. **S. B. Yadaw**
Studies on Glass Fiber Reinforced Multifunctional Epoxy Composite
- 1700 hrs. – 1715 hrs. **R. P. Singh**
Synthesis and Characterization of Polyamic acid and Coating on Basofil/Nomex/Carbon Blended Fabrics for Thermal Properties Improvement
- 1715 hrs. – 1730 hrs. **George V Thomas**
Microwave Assisted Synthesis of Tungsten Oxide Doped Graphene Nano Composites

1600 hrs. – 1800 hrs.

Poster Session

1900 hrs. – 2030 hrs.

Cultural Programme

2030 hrs. – 2130 hrs.

Dinner

**Invited Lectures
&
Oral Presentations in Parallel Sessions
APF²-2011, DMSRDE, G.T. Road, Kanpur
3rd, Tuesday, December 28, 2011**

Session-13 (Auditorium Hall) Polymer Synthesis and Characterization –IV

Chairman: Dr. Sarfaraz Alam, Sc G, DMSRDE

- 0930 hrs. – 1000 hrs. **Invited Talk - 13**
Prof. L. M. Manocha, Sardar Patel University, Gujarat
/ Shri. R.P. Bhatt, DMSRDE, (Session Co-ordinator)
Polymeric Precursors for Carbon and Ceramic based Composites for High End Applications
- 1000 hrs. – 1015 hrs **C. T. Vijayakumar**
Studies on Structurally Diverse Benzoxazines: Synthesis, Polymerization and Thermal Studies
- 1015 hrs. – 1030 hrs. **Priti Shukla**
Phenol-Cardanol Based Epoxidized Novolac Vinyl Ester Resin: Synthesis and Characterization
- 1030 hrs. – 1045 hrs. **Raza Rasool**
Synthesis of Schiff Base Polymers Containing Transition Metals, its Characterization and Applications
- 1045 hrs. – 1100 hrs. **P. Chowdhury**
Sonochemical Quaternization of Poly (4-vinyl pyridine) with Iodoethane and Study of its Cr (VI) sorption capacity

Session-14 (Kothari hall) Rheology and Processing of Polymers–IV

Chairman: Dr. M. Nasim, Sc G, DMSRDE

- 0930 hrs. – 1000 hrs. **Invited Talk - 14**
Prof. C. T. Vijay Kumar, Kamaraj College of Engineering and Technology, Vellakulam
/ Dr. Vineeta Nigam, DMSRDE, (Session Co-ordinator)
Matrix Resins: Recent Developments
- 1000 hrs. – 1015 hrs. **Niladri Roy**
Viscoelastic Properties of Hydrogels: A Polymeric Dressing Material
- 1015 hrs. – 1030 hrs. **R. S. Haldar**
Processing of Polyamides by Electron Beam Irradiation for Improved Performances
- 1030 hrs. – 1045 hrs. **Prachi Panse**
Rheological and Thermal Properties of Epoxy Composites Reinforced with Carbon Nanofibers
- 1045 hrs. – 1100 hrs. **Sandeep Kumar**
Mechanical, Rheological, Thermal and Morphological Studies on Polyethersulphone and Polyphosphazene Blends

1100 hrs – 1125 hrs Tea

Session-15 (Auditorium hall) Polymeric Fibers and Fabrics – IV

Chairman: Prof. L. M. Manocha, Sardar Patel University, Gujarat

- 1130 hrs. – 1200 hrs. **Invited Talk - 15**
Mr. Dakshesh Desai, Premier Colorscan Instruments
/ Dr. D. S. Bag, DMSRDE, (Session Co-ordinator)
Colour Fastness and Weathering
- 1200 hrs. – 1215 hrs. **D.B. Shakyawar**
Engineering of Angora Hair Based Insulative mid- Layer for Cold Protective Clothing
- 1215 hrs. – 1230 hrs. **Dillip Kumar Behera**
Recent Developments in High Performance Ballistic Fiber for Armour Applications
- 1230 hrs. – 1245 hrs. **V. Balaji**
Application of Isothermal Conversion of Dynamic DSC Curve for Stabilization of Acrylic Precursor Fibers
- 1245 hrs. – 1300 hrs. **Tarun K. Mishra**
Tribological studies of PEEK Nanocomposites Reinforced with Different Nano Sized Fillers
- 1300 hrs. – 1315 hrs. **Nagarajan David Mathan**
Pyrolysis Studies on Intumescent Spirophosphates
- 1315 hrs. – 1330 hrs. **Shalu Vashistha**
Bio and Chemical Modification of Sisal Fibers Using Cellulase Enzyme and Methyl Methacrylate Monomer

Session-16 (Kothari hall) Polymer Blends, Composites and Nanocomposites – IV

Chairman: Prof. C. T. Vijay Kumar, Kamaraj College of Engg. and Technology, Vellakulam

- 1130 hrs. – 1200 hrs. **Invited Talk - 16**
Mr. Kiran Joshi, Premier Colorscan Instruments
/ Dr. T. C. Shami, DMSRDE, (Session Co-ordinator)
Instrumentation for Textile Testing
- 1200 hrs. – 1215 hrs. **Harish Mudila**
Microwave Assisted Synthesis of NanoBariumtitanate Polyacrylonitrile Composites for DOX Sensor
- 1215 hrs. – 1230 hrs. **Praveer Verma**
Development of Design Norms and Test Methods for Elastomeric Materials in Critical Sealing Application
- 1230 hrs. – 1245 hrs. **R. Mishra**
Ferromagnetic SiC Foam by Replication Method Using Polycarbosilane Precursor
- 1245 hrs. – 1300 hrs. **S.M. Abbas**
EM and Microwave Absorption Properties of FSS based Composites
- 1300 hrs. – 1315 hrs. **B. Kothandaraman**
Distribution of In Situ Geneated Silica, in Cured, Silicone Modified Epoxy Films Subjected to Sol-Gel Process
- 1315 hrs. – 1330 hrs. **Mohd. Imamuddin**
Conductivity Modification of Bulk Multiwalled Carbon Nanotubes Networks through its decoration by Silver Nanoparticles
- 1330 hrs. - 1425 hrs. Lunch**

VALEDECTORY FUNCTION (Auditorium Hall)

1430 hrs. – 1440 hrs.

**Address: Dr. A. K. Saxena, Director, DMSRDE and
Chairperson, APF² -2011**

1440 hrs. – 1450 hrs.

Chief Guest Address:

1450 hrs – 1500 hrs.

**Brief Review Address: Dr. Sarfaraz Alam, Convenor, APF²
2011**

1500 hrs. – 1600 hrs

Tea

Poster Presentation - I
APF²-2011, DMSRDE, G.T. Road, Kanpur
1st Day Monday, December 26, 2011

Co-ordinators: (Dr. R. Ramani, Sandeep Kumar & Mritunjay K. Pandey)
(16.00 hrs - 18.30 hrs)

- P-1 **Saju M. Sebastian**
Thermal and Microwave Assisted Oxidation and Dihalogenation Reactions
Using Polyvinylpyrrolidone Bromine Complexes
- P-2 **Neelam Shukla**
Synthesis and Light Emitting Properties of Copolymer Based on MEH-PPV
and MDMO-PPV
- P-3 **Pradeep Upadhyaya**
Preparation/Characterization of PMMA-Functionalized MWCNT
Nanocomposites via In-situ Polymerization
- P-4 **ES Suraj**
Development of Composite Radomes for Underwater Applications
- P-5 **Minakshi Sultania**
Computational Studies on Optimization of Operational Parameters of
Esterification Reaction of Cashew Nut Shell Liquid (CNSL)-Derived Epoxy
Resin using Response Surface Methodology (RSM)
- P-6 **D.D. Potphode**
Solid State Supercapacitor Based on Activated carbon and Poly [2, 5-
Benzimidazole] for High Temperature Application
- P-7 **Riya Srivastava**
Synthesis and Characterization of Caradanol- Furfural Resin
- P-8 **Ravindra Singh**
Fullerene Containing Polymeric Materials, a Thermally Stable Novel Polymer
- P-9 **Rashmi Katiyar**
Swelling Study of Fullerene Containing Poly (2-Hydroxy Ethyl Methacrylate)
Hydrogels
- P-10 **Shailesh Shukla**
Mechanical and Thermal Properties of Epoxy, Resole and Carboxyl-
Terminated Polybutadiene (CTPB) Blend
- P-11 **A. P. Singh**
Studies on Anti-Corrosive Properties of Primer Based on PANI (Polyaniline)
- P-12 **Naintara Jain**
Synthesis and Characterization of Aminoalkyl Silatrane Based Polyimide
Films
- P-13 **Rakesh Kumar Khandal**
Polyurethane Prepolymer for Medical Application
- P-14 **Sarika Yadav**
Benzoyl Peroxide-Initiated Free-Radical Copolymerization of A -Terpineol
with Vinyl Acetate: Synthesis and Characterization.
- P-15 **Subhash Mandal**

- P-16 Studies on Mechanical, Thermal and Morphological Properties of Gamma Radiation Resistant Polymeric Films of Poly (Ether Imide) and Lead Oxide
Subhash Mandal
- P-17 Studies on the Interfacial Adhesion of the PEEK/PES/BT and PEEK/PEK/BT Nanocomposites Using Simple Mathematical Predictive Models and Experimental Results
R. K. Diwan
- P-18 Study of Physico-Mechanical Properties of Mica Reinforced PEEK
Saurabh Srivastava
- P-19 Synthesis of Octadecylamine Modified -Organophilic Clay - Epoxy Nanocomposites: A study on Sliding Wear Behaviour, Thermal and Mechanical Properties
Jyoti Prakash Singh
- P-20 Development of Photo-sensitive Fluorescent Conducting Polymers for Sensor and LED Applications
Gobardhan Lal
- P-21 Effect of Nanomaterials Doping in Polymers as an Interface Materials for Sensors Applications Studied by Quartz Crystal Microbalance (QCM) Sensor
Tarun Kumar Pardhi
- P-22 Study of the Progress in Stabilization of PAN Precursor by Mercury Porosimetry
Kimi Jain
- P-23 Isolation of Microorganisms Causing Biodegradation of Plastics
Renjth Devasia
- P-24 Fabrication and Properties of 2D C/SiC Composite Using MoSi₂ and TiSi₂ as Active Fillers
Himel Chakraborty
- P-25 Multiwall Carbon Nanotube Reinforced Unsaturated Polyester Nanocomposites for Multifunctional Application
Saurabh Srivastava
- P-26 A Study of Nano Alumina Loading on Mechanical Properties of Kevlar/Epoxy Composite Laminates
M. K. Misra
- P-27 Development of Microencapsulated Phase Change Material in PCM-Wood Composite Panel for Desert Application
Jeetendra Kumar Banshiwal
- P-28 Effect of Non-Halogenated Flame Retardant Additives on LOI and Mechanical Properties of Isophthalic Unsaturated Polyester Resin
S. S. Gautam
- P-29 Fabrication of Smart Dielectric Elastomer Patch Actuators (DEPA) Based on Polyacrylic Rubber
Pushpa Singh
- P-30 Synthesis and Characterization of Highly Processable Perylene Copolyimides for Electronic Applications
Arati Kole

- P-31 Pilot Scale Production of Polydimethylsilane, Precursor of SiC Fiber at the Level of 10 Kg/batch
Babita Shastri
Non-Covalent Functionalization of Multi Walled Carbon Nanotube for Better Dispersion in Epoxy Resin
- P-32 **Swati Chopra**
Novel Nanocomposites of Polyaniline and Fullerene Based Polyurethane
- P-33 **Sangeeta Kandpal**
Silicone Urethane Dendrimers: Synthesis & Characterization

Poster Presentation - II
APF²-2011, DMSRDE, G.T. Road, Kanpur
2nd Day Tuesday, December 27, 2011

Co-ordinators: (Dr. R. Ramani, Sandeep Kumar & Mritunjay K. Pandey)
(16.00 hrs - 18.00 hrs)

- P-34 **Smita Soni**
Failure Analysis of PTFE Hose of Critical Aircraft Hydraulic System
- P-35 **Praveer Verma**
Development of NDT Technique for Metal Sandwiched Polymeric Glazing Material
- P-36 **Praveer Verma**
Weathering Studies and Life Estimation of Carbon-Epoxy Composites for Aircraft Structural Applications
- P-37 **Smita Soni**
Life Estimation Studies on Advanced Personal Protective Gear
- P-38 **Smita Soni**
Advanced Polymer Matrices Composites for Structural and Ballistic Applications
- P-39 **Sonam Omar**
Defense Textiles: Evolution in the Area of Personnel Protection
Theme: Fibers (Continuous and Nano Fibers) and Fabrics
- P-40 **C.G. Jayalakshmi**
Radar Absorbing Syntactic Foams
- P-41 **A.K Soni**
Barium Titanate Fibers by Gel Spinning and Drawing: A Modeling Approach
- P-42 **B. R. Das**
Thermo-Physiological Comfort Characteristics of Fine-Denier Polypropylene Fabrics
- P-43 **Punam Awasthi**
Study of Properties of Vinyl Ester Resin with Respect to its Composition and Process Condition
- P-44 **Rajendran Surender**
Cure Kinetic Studies of Cloisite 15A Based Bismaleimide (BMIX) Nanocomposites
- P-45 **S.Vinayagamoorthi**

- Polymerization and Thermal Degradation Studies of Bispropargyl Ether of Bisphenol A / Bismaleimide Blends
- P-46 **S. B. Jagtap**
Effect of Preparation Method and Chain length Hardener on Thermomechanical Properties of Flexible Epoxy Nanocomposites
- P-47 **Kavita Srivastava**
A Study on the Thermal, Mechanical and Morphological Characterization of Epoxy/Resole-Type Phenolic Resin/Nanoclay Based Nanocomposite
- P-48 **Mohit Katiyar**
Study on Microwave Absorption Properties of Rubber-Ferrite Composites
P-47
- P-49 **Priti Shukla**
Blends of Cardanol-Based Epoxidized Novolac Resin and CTBN: A Study on Curing and Degradation Characteristics
- P-50 **Pratibha Singh**
Studies on Mechanical Properties of Ipomoea Batata Fiber Reinforced Compatibilized Polypropylene Composites
- P-51 **Rashmi Katiyar**
Sorption Properties of Fullerene Containing Cross-Linked Polymers
- P-52 **Asish Malas**
Development of Nanocomposites Based on Silicone Rubber in Presence of Different Nanofillers – A Comparative Study
- P-53 **K.C.Tripathi**
EM & Microwave Absorption Properties of CBP/PU Composite Filled with MWCNTs
- P-54 **Uttam Saha**
Graphite Oxides: Synthesis, Chemical Functionalization and its Use as a Component for Ternary Composites Formulation
- P-55 **Praveer Verma**
Study on Design and Development of High Transparency, Lighter Weight Radome for Aircraft Application
- P-56 **Smita Soni**
Study on Composite Prepregs for Aerospace Structural Applications
- P-57 **Sweta**
Synthesis of PAN/Polysulfone Blends for Corrosion Protection of Copper
- P-58 **B. P. Singh**
Synthesis and Characterization of Inorganic Polymer Nano-Composites
- P-59 **Mohd. Yaser**
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