

CENTRAL INSTITUTE OF PLASTICS ENGINEERING AND TECHNOLOGY, CHENNAI



Organised by



INTERNATIONAL CONFERENCE

on

ADVANCEMENTS IN POLYMERIC MATERIALS

Innovations in Polymeric Materials and Product Development

REGISTRATION

Date: 24th March, 2011

Time: 3.00 PM – 7.00 PM

Venue: CIPET, Chennai

Contact Person:

- | | | |
|--------------------------|---|------------------|
| 1. Mr. Manoranjan Biswal | - | Ph: 09543093381 |
| 2. Mr. P. Sreedhar | - | Ph: 044 64554793 |

Dinner: 7.30 PM onwards

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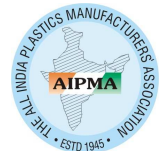


Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizer
Govt. of India

in association with



PLASTINDIA FOUNDATION




Reliance
Industries Limited



INAUGURATION

Date: 25th March, 2011

Time: 8.30 AM – 9.30 AM

Chief Guest: **Shri. M. Raman, I.A.S.**
Secretary
Department of Chemicals and Petrochemicals, Govt. of India
President-CIPET Governing Council

Guest of Honor: **Dr. V. Rajagopalan, I.A.S.**
Additional Secretary & Financial Adviser
Department of Chemicals and Petrochemicals, Govt. of India

Smt. Neelkamal Darbari, I.A.S.
Joint Secretary (Petrochemicals)
Department of Chemicals & Petrochemicals, Govt. of India

Special Invitees: **Shri. Yogesh P. Shah**
President, All India Plastics Manufacturers Association

Shri. Ashok Goel
President
Plastindia Foundation

9.30 AM – 10.00 AM High Tea

TECHNICAL SESSION – ORAL

FRIDAY, 25 th MARCH, 2011	
PLENARY LECTURES 10.00-12.45 PM	
Chair: Prof. S N Maiti	Co-Chair: Dr. Sania Akhtar
10.00 - 10.30 AM	Tools for designing new products with advanced polymeric materials Ing. Miguel Angel Vega Rivera <i>Centre de Ingenieria Tecnologia de plasticos- CIATEQ Unidad Edomex, Mexico</i>
10.30 – 11.00 AM	Plastics and Sustainability: How Viable are Bioplastics and Biobased Materials in the New Green Economy? Prof. Amar Mohanty <i>Bioproducts Discovery and Development Centre, Department of Plant Agriculture University of Guelph, Canada</i>
11.00 – 11.30 AM	Trends in Additive Fabrication Mr. Fred Fischer <i>Stratasys USA</i>
11.30 – 12.00 Noon	Failure of Mechanically Fastened Composite laminates Prof. N. Sivaprasad <i>Department of Mechanical Engineering, IIT, Chennai</i>
12.00 – 12.30 PM	Easy to use –Fast-Accurate-Next Generation Injection Molding Simulation Ing. Marco Thornagel / <u>Mr. Tobias Tauber</u> <i>SIGMA Engineering GmbH, Aachen, Germany</i>
12.30– 12.45 PM	DISCUSSION
12.45 – 1.30 PM	LUNCH

FRIDAY, 25th MARCH, 2011

PRODUCT DEVELOPMENT I- 1.30 – 3.40 PM

INVITED LECTURES

Chair: Prof. Prof.P.V. Manivanan

Co-Chair: Dr. P Poomalai

1.30 – 1.50 PM

Drivers for the development of advanced polymeric materials

Dr.Ranganath Shastri

Centre de Ingenieria Tecnologia de plasticos- CIATEQ ,Mexico

1.50 – 2.10 PM

Need to bridge design and manufacturing

Dr. M. Sathyaprasad

Ashok Leyland Technical Centre, Chennai

CONTRIBUTORY PAPERS

2.10 – 2.25 PM

Modelling and Finite Element Analysis Of Green Composites For Structural Applications

Saravana Bavan D, Siad, Kamal Babu, Mohan Kumar. G. C

Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore

2.25 – 2.40 PM

Finite Element Analysis of Electromagnetic Compression of Steel Tubes

S.Rajiv, K.Shanmuga Sundaram, K.Barathi

Department of Mechanical Engineering, Anna University, Chennai

2.40 – 2.55 PM

Dynamic Analysis of free Mass Drop and its Practical Application

Subrata Nayak, Narendra Hardikar

PSAT, GE Global Research, GE India Technology, Bangalore

2.55 – 3.10 PM

Stress analysis of pipe bend with attached pipe at extrados due to ovality

P.Ramaswami, P.Senthil Velmurugan

Department of Mechanical Engineering, Kongu Engineering College, Erode

3.10 – 3.25 PM

Innovative Grab Handle Application Development for Indian Railways

Venkatesha N, Harindranath Sharma, Ashok Kancharla

GE India Technology Centre Pvt, Ltd., Bangalore

3.25 – 3.40 PM

DISCUSSION

3.40 – 4.00 PM

TEA BREAK

FRIDAY, 25th MARCH, 2011

NANOCOMPOSITES I - 1.30 – 3.40 PM

INVITED LECTURES

Chair: Prof. P L Nayak

Co-Chair: Dr. T.O Verghese

1.30 – 1.50 PM

Rheological And Mechanical Properties Of Rubber-Toughened Polyamide12/Organoclay Nanocomposites
Prof. S. N. Maiti
Centre for Polymer Science and Engineering, IIT Delhi

1.50 – 2.10 PM

Bio-Based Polymer Nanocomposites and their Multifaceted Advanced Applications
Prof. Niranjana Karak
Chemical Sciences Department, Tezpur University, Assam

CONTRIBUTORY PAPERS

2.10 – 2.25 PM

Effect of different fillers on the fibrillation of LCP in the Nylon/LCP blend system
Ganesh Chandra Nayak, Chapal Kumar Das
Materials Science Centre, IIT, Kharagpur

2.25 – 2.40 PM

In-situ synthesis and characterization of modified graphene/conducting polymer nanocomposites
Sumanta Sahoo, Karthikeyan G and C. K. Das
Materials Science Centre, IIT, Kharagpur

2.40 – 2.55 PM

Bio active Nano Composite for Bone Replacement
M.Srivatssan, C.Seetha lakshmi and R.Vasanthakumari
Department of Polymer Technology, B.S.Abdur Rahman Crescent Engineering College, Chennai

2.55 – 3.10 PM

Surface modification of nano-CuO particles using Polyaniline
K. Jacinth Mispa, P. Subramaniam, R. Murugesan
Department of Chemistry, Aditanar College, Tiruchendur

3.10 – 3.25 PM

Investigation on the effect of Nano-clay on Mechanical Properties of Unsaturated Polyester Nanocomposite using Robust Design Concept
J.T. Winowlin Jappes, N. Rajini and I. Siva
Center for Composite Materials, Department of Mechanical Engineering, Kalasalingam University, Srivilliputhur

3.25 - 3.40 PM

DISCUSSION

3.40 – 4.00 PM

TEA BREAK

FRIDAY, 25th MARCH, 2011

BIOPLASTICS I – 1.30 – 3.40 PM

INVITED LECTURES

Chair: Prof. A K Ghosh

Co-Chair: Shri. S K Sharma

1.30 – 1.50 PM

Green composites from agro residues: current trends & future prospective

Prof. Manjushree Mishra

*Bioproducts Discovery and Development Centre, Department of Plant Agriculture
University of Guelph, Canada*

1.50 – 2.10 PM

Supplementary cementitious material for mitigating degradation of sisal and coconut fiber cement composites

Savita Dixit, Dharani Dharan Selvam, Raju Mangal

Department of Chemistry, Maulana Azad National Institute of Technology, Bhopal

CONTRIBUTORY PAPERS

2.10 – 2.25 PM

Jute reinforced nanoclay modified Soy composite: Bio-material for engineering application

Ajaya K. Behera, Sridevi. A. N., R. K. Basak, R. K. Sen, and B. Adhikari

Materials Science Centre, IIT, Kharagpur

2.25 – 2.40 PM

Ultra-Thin Natural Rubber Coating on Conventional Jute Hessian Cloth for High and Low-End Novel Packaging Application

Pradipta Chandra, Bhanu Bhusan Khatua and Basudam Adhikari

Materials Science Centre, IIT, Kharagpur

2.40 – 2.55 PM

Soyabean oil based electron beam (EB) curable resin: Effect of monomers on coating properties.

Merlyn Thandu, Sunil Sabharwal, V.A.Bambole, P.A. Mahanwar

Department of Polymer and Surface Engineering, Institute of Chemical Technology (ICT), Matunga, Mumbai

2.55 – 3.10 PM

Biodegradable Polymers in Controlled Drug Release

Neeraj.P.V

School of Technology and Applied Sciences, Mahatma Gandhi University, Pullarikunu Campus, Malloossery.

3.10 – 3.25 PM

Comparative Studies on Controlled Drug release of 5-fluorouracil and 6-thioguanine entrapped polyethylene glycol-co-poly(lactic acid) polymer nanoparticles

Kannaiyan Satishkumar, Vaithialingam Selvaraj and Muthukaruppan Alagar

Department of Chemical Engineering, SSN College of Engineering, Kalavakkam

3.25 - 3.40 PM

DISCUSSION

3.40 – 4.00 PM

TEA BREAK

FRIDAY, 25th MARCH, 2011

SYNTHESIS I – 1.30 – 3.40 PM

INVITED LECTURES

Chair: Prof. R Dhamodharan

Co-Chair: Dr. P S G Krishnan

1.30 – 1.50 PM

Analytical interventions/advancements in polyolefin characterisation

Dr.G.S.Kapur

Indian Oil Corporation Limited (IOCL), Faridabad

1.50 – 2.10 PM

Synthesis of Core Shell Latex Nanoparticles with Fluoropolymer as Core

Dr. S. Shailaja

Indian Institute of Chemical Technology (IICT), Hyderabad

CONTRIBUTORY PAPERS

2.10 – 2.25 PM

Mechanical property and drug delivery with maleic anhydride crosslinking poly (vinyl alcohol) and gelatin hydrogel

Akhtar Jahan Siddiqi, Koel Chaudhury and Basudam Adhikari

Materials Science Centre, IIT, Kharagpur

2.25 – 2.40 PM

Synthesis and Characterization of Conducting Polypyrrole -Coated Nylon Fiber- Natural Rubber Composites

D.S.Pramila Devi, T.Jabin, Sunil.K.Narayanan Kuttu

Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi

2.40 – 2.55 PM

Effect of two monomers on the holographic properties of PVA/AA photopolymer films

K.P. Nimmi, V. Pramitha, K.Sreekumar, C.Sudha Kartha, Rani Joseph

Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi

2.55 – 3.10 PM

Sodium Carboxymethyl cellulose based semi IPN composite hydrogels for removal of Toxic Metal ions

K. Madhusudhan Rao, T.J. Sudhavani, P. Rama Subba Reddy, H. Seshagiri Rao, K.S.V. Krishna Rao, M.C.S. Subha, K. Chowdoji Rao

Department of Chemistry, S. K. University, Anantapur

3.10 – 3.25 PM

Development of Novel Chitosan Membrane Networks and Separation of Toxic Metal ions

T.J. Sudhavani, P. Rama Subba Reddy, K. Madhusudhan Rao, S. Siva Prasad, K.S.V. Krishna Rao, M.C.S. Subha

Department of Chemistry, Yogi Vemana University, Kadapa

3.25 - 3.40 PM

DISCUSSION

3.40 – 4.00 PM

TEA BREAK

FRIDAY, 25th MARCH, 2011

PRODUCT DEVELOPMENT II – 4.00 –6.10 PM

INVITED LECTURES

Chair: Prof. Gajendra Dixit

Co-Chair: Dr. S N Yadav

4.00 – 4.20 PM

Role of advanced sensing and real time embedded control techniques used in development and operation of Polymeric materials based products

Dr. P.V. Manivannan

Department of Mechanical Engineering, IIT, Chennai

CONTRIBUTORY PAPERS

4.20 – 4.35 PM

Modeling and optimization of Incoloy 800 on machining of WEDM process

Muthu Kumar V, Suresh Babu A, Venkatasamy R, Raajenthiren M.

Department of Manufacturing Engineering, Anna University, Chennai

4.35 – 4.50 PM

Strains and bearing stiffness predictions of bolted joints in composite laminates using neural networks

B.Sutharson, M.Rajendran

SMBS, VIT University, Vellore

4.50 – 5.05 PM

Modeling Surface Roughness in Precision Turning CFRP Composites using RSM

T. Rajasekaran, K. Palanikumar, B. K. Vinayagam

School of Mechanical Engineering, SRM University, Kattankulathur

5.05 – 5.20 PM

Wind load performance evaluation of plane sheets and box structured multi-wall sheet

Prasad Dasappa, Narendra Hardikar

Application Technology & Intellectual Property, SABIC Innovative Plastics, Bangalore

5.20 – 5.35 PM

Effect of glycyrrhiza glabra finished eye pillow for medical applications

V.Krishnaveni, S.Amsamani

Avinashilingam Deemed University, Coimbatore

5.35 – 5.50 PM

Preparation of chitin/PVA/SF ternary blend for heavy metal ion removal from electroplate industrial effluent

S. Hema, R.Ramya, P.N. Sudha

Manonmanium Sundaranar University, Tirunelveli

5.50 – 6.05 PM

Electrochemical synthesis and characterization of conducting copolymer coatings on low nickel stainless steel for corrosion protection

R. Saraswathy, L. Kavitha and D. Gopi

Periyar University, Salem

6.05 – 6.10 PM

DISCUSSION

FRIDAY, 25th MARCH, 2011

NANOCOMPOSITES II- 4.00 –6.10 PM

INVITED LECTURES

Chair: Dr. B S R Reddy

Co-Chair: Dr. Srinivasulu

4.00 – 4.20 PM

Preparation and Properties of Anionic Polyurethane Based Nanocomposites

Dr. S. N. Jaisankar

Central Leather Research Institute (CLRI), Chennai

CONTRIBUTORY PAPERS

4.20 – 4.35 PM

Thermomechanical characterization of Epoxy and Vinyl Ester nanocomposites filled with MWCNT

Manoranjan Kumar, S. Satrusallya, **S. N. Yadav**, S. K. Nayak, G. Dixit, R.P. Singh

Central Institute of Plastics Engineering and Technology (CIPET), Bhubaneswar

4.35 – 4.50 PM

Enhancement of thermal conductivity of polyester by filling aluminum nitride

Lucy Mohapatra, Alok Satapathy, Sisir Mantry, Amar Patnaik

Department of Mechanical Engineering, NIT, Rourkela

4.50 – 5.05 PM

Synthesis and Characterization of Biomimetic nanocomposites for Biomedical Applications

H. Seshagiri Rao, T.J. Sudhavani, S. Siva Prasad, K. Madusudan Rao, K.S.V. Krishna Rao

Department of Chemistry, Yogi Vemana University, Kadapa

5.05 – 5.20 PM

Effect of Nano Polytetrafluoro ethylene on epoxy-melamine coating

Sandesh Ramteke, Parag A Wasekar, S T Mhaske, A C Rao

Polymer and Surface Engineering Department, Institute of Chemical Technology, Mumbai

5.20 – 5.35 PM

Effect of Addition of Nanosilver Fillers in Araldite for Electronic Packaging Applications

Whitelin Annie Bala, N.Selva kumar, K.Jeyasubramanian, V.S. Benitha

Department of Nano Science and Technology, Mepco Schlenk Engineering College, Sivakasi

5.35 – 5.50 PM

Synthesis and Characterization of polyindole /CdO nanocomposites

K. Jacinth Mispa, P .Subramaniam, R. Murugesan

Department of Chemistry, Aditanar college, Tiruchendur

5.50 – 6.05 PM

Fabrication of high density non volatile memory devices utilizing CdS/PMMA nanocomposites

R.Sankar Ganesh and P.Raji

Department of Nanoscience and Technology, Mepco Schlenk Engineering College, Sivakasi

6.05 – 6.10 PM

DISCUSSION

FRIDAY, 25th MARCH, 2011

BIOPLASTICS, BLENDS AND ALLOYS – 4.00 –6.00 PM

INVITED LECTURES

Chair: Prof. Amar Mohanty

Co-Chair: Dr. S C Shit

4.00 – 4.20 PM

Film Processability of Poly (lactic acid) based Blends and Nano-composites

Prof. A.K. Ghosh

Centre for Polymer Science & Engineering, IIT Delhi

4.20 – 4.40 PM

Bioplastics- challenges and opportunities for R & D in India

Dr. Sunder Balakrishnan

Harita NTI, Chennai

CONTRIBUTORY PAPERS

4.40 – 4.55 PM

Mechanical, Thermal and Morphological behavior of castor oil based chain extended polyurethane

K.S. Manjula, **Subhas C Schit**, B Srinivasalu, Siddaramaiah

Central Institute of Plastics Engineering and Technology (CIPET), Ahmedabad

4.55 – 5.10 PM

Synthesis, Characterization and Application of Nanostructured Conducting Polyaniline to Biosensing

Deepshikha, T. Basu

Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida

5.10 – 5.25 PM

Production of Biodegradable plastics from Starch based material

G. Gnanavel

Department of Biotechnology, Karunya University, Coimbatore

5.25 – 5.40 PM

Development of Chitosan-g-poly (methacrylamide) Microspheres For Controlled Release of Hypertensive Drug

B.Yerri Swamy, Lakshmi Narayana Reddy, S.H.Rajendra, M.C.S.Subha, K.Chowdoji Rao

Sri Krishnadevaraya University, Anantapur

5.40 - 5.55 PM

Erosive wear behavior of bio waste reinforced polymer composites

Harinath Aireddy and S.C.Mishra

Metallurgical and Materials Engineering, Department, National Institute of Technology, Rourkela

5.55 – 6.00 PM

DISCUSSION

FRIDAY, 25th MARCH, 2011

SYNTHESIS II- 4.00 –6.00 PM

INVITED LECTURES

Chair: Prof. Manjushree Mishra

Co-Chair: Dr. Vijaikumar

4.00 – 4.20 PM

White Light Emitting Diodes From Semiconducting Polythiophenes

Dr. Narayanasastri Somanathan

Central Leather Research Institute (CLRI), Chennai

4.20 – 4.40 PM

Polyolefin catalysts and Processes and their impact on new material development

Dr. Shashikant

Indian Oil Corporation Limited (IOCL), Faridabad

CONTRIBUTORY PAPERS

4.40 – 4.55 PM

Ester sensing properties of poly (aniline-co-amino benzoic acid) for detection of pest attack

Jyoti Singh, R. Banerjee and B.Adhikari

Materials Science Center, IIT, Kharagpur

4.55 – 5.10 PM

Synthesis, Characterization and study on antibacterial activity of modified GMA – Nitrosonaphthyl acrylate and methacrylate Copolymers

S. Mageswari, K. Subramanian

Department of Chemistry, Anna University, Chennai

5.10 – 5.25 PM

Study on dyeability of conducting polymer coated textile materials

K. Kalapriya, H. Gurumallesh Prabhu

Department of Industrial Chemistry, School of Chemistry, Alagappa University, Karaikudi

5.25 – 5.40 PM

Development of Electrically Conductive Fabrics using Conductive Polyaniline Polymer

G.Thilagavathi, N. Muthu Kumar

Department of Textile Technology, PSG College of Technology, Coimbatore

5.40 – 5.55 PM

2,4-Dihydroxybenzoic acid/Melamine/Formaldehyde Terpolymer Resin: Synthesis, Characterization and Their Application in the removal of Heavy Metals

W. B. Gurnule

Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur

5.55 – 6.00 PM

DISCUSSION

POSTER NO.	POSTER SESSION
25th March, 2011 – 3.00 pm – 6.00 pm	
P1	Synthesis and Characterization of Polyaniline with Metal Oxide Nano-Composites P. Suja Prema Rajini , R. Murugesan, S. Perumal <i>T.D.M.N.S. College, T. Kallikulam</i>
P2	Water State and Mechanical Characterisation of Cross- Linked Poly Sodium Acrylate Hydrogels with and without Cellulose Microfibrils S. Anbu Dayanidhi , Jayakrishna Patnam, Smita Mohanty, Sanjay K Nayak <i>Laboratory for Advanced Research in Polymeric Materials, CIPET, Bhubaneswar</i> <i>Central Institute of Plastics Engineering & Technology, Chennai</i>
P3	Homopolymer of 2-Amino Benzyl Methacrylate and its Copolymer with Ethoxylated Bisphenol-A-Dimethacrylate: Synthesis, Characterization, and its Application as Adhesives S. John Santhosh Kumar , S. Mageswari, G. Kumar, K. Subramanian <i>Anna University, Chennai</i>
P4	Effect of Cr ₂ O ₃ on the Structural Characteristics of Polyaniline Sanith Jacob , U. Santhoskumar, K.P. Bhuvana, K. Palanivelu <i>Central Institute of Plastics Engineering & Technology, Chennai</i>
P5	Synthesis, Spectral, and Metal Binding Study of Chelating Formaldehyde Resin Derived From 4-Hydroxy Acetophenone M. Sasidaran, P. Kandasamy N. Janaki, S. Vijayalakshmi T. Kaliyappan <i>Polymer Research Laboratory, Pondicherry Engineering College, Pillaichavady</i>
P6	Chelation Potentials of New Polymeric Hydrazone Derived from 2,4-Dihydroxy Benzaldehyde R. Sankar, M. Sasidaran , P. Kandasamy, S. Vijayalakshmi, T. Kaliyappan <i>Polymer Research Laboratory, Pondicherry Engineering College, Pillaichavady</i>
P7	Synthesis and characterization of polyethylene oxide (PEO) Doped with NAI B. Rajesh Kumar , C. Pullaiah, T. Subba Rao <i>Sri Krishnadevaraya University, Anantapur</i>
P8	Effect of organically modified clay on the dynamic mechanical & thermal properties of pla nanocomposites. Aswini kumar Mohapatra , Smita Mohanty, S.K. Nayak <i>Laboratory for Advanced Research in Polymeric Materials, CIPET, Bhubaneswar</i>
P9	Modification of Polystyrene and High Density Polyethylene Blends using Nano Kaolinite Clay Tresa Sunitha George , Asha Krishnan K, Newly Joseph, K E George <i>Cochin university of science and technology, kochi</i>

P10	Synergetic effect of organomodified Kaolin clay and short Glass fibre on HDPE-composites. Newly Joseph , Asha Krishnan, Tresa Sunitha George, George K. E. <i>Cochin University of Science and Technology, Kochi</i>
P11	Reinforcement Effect of Kaolin Clay on SBR Latex Preetha Nair K , Rani Joseph <i>Cochin University of Science & Technology, Cochin</i>
P12	Synthesis and characterization of polypyrrole/platinum nanocomposite P. Boomi , H. Gurumallesh prabu <i>School of Chemistry, Alagappa University, Karaikudi</i>
P13	Mechanical and morphological properties of epoxy/chopped glassfibre/ organo-montmorillonite nanocomposites Manoj Kumar , Vishal Verma, K. N. Pandey, Vijai Kumar <i>Central Institute of Plastics Engineering and Technology, Lucknow</i>
P14	Effect of Cationic Surfactant (POPA) on Properties of PP-Bentonite Nanocomposites Manoj N. Mali , S. T. Mhaske <i>Institute of Chemical Technology, Matunga, Mumbai</i>
P15	Negative Lift Analysis of Spoilers for a High Speed Car C. Mathikumar Manikandan , M Rajasekar <i>ARSTPS, Central Institute of Plastics Engineering and Technology, Chennai</i>
P16	Novel quaternized polysulfone/ZrO ₂ composite membranes for solid alkaline fuel cell applications Muthukrishnan Purushothaman , Rajangam vinodh, Dharmalingam sangeetha <i>Anna University Chennai, Chennai</i>
P17	Finite element analysis of lightweight biogas cylinder Umakant Yadav , Dhanraj. J, <i>Central Institute of Plastics Engineering and Technology, Hajipur</i>
P18	Thermal analysis of ball screw system in cnc machining center P. Santhana Kumar , A. Jeevanantham <i>ARSTPS, Central Institute of Plastics Engineering and Technology, Chennai</i>
P19	Modeling the injection moulding processing of a glass filled nylon spur gear Marcian Frank Antony <i>Central Institute of Plastics Engineering and Technology (CIPET), Chennai</i>
P20	Effect of unloading an elastic-plastic hemisphere in contact with a rigid flat by considering the strain hardening effect K.A.Arjun , S.Shankar <i>School of Building and Mechanical Sciences, Kongu Engineering College, Erode</i>
P21	Effect of temperature on an elastic-plastic hemisphere in contact with a rigid flat

	S. Shankar, P. Loganathan <i>School of Building and Mechanical Sciences, Kongu Engineering College, Erode</i>
P22	Characterization of springback effect in sheet metal forming P. Muthukumar, P. Devendran <i>School of Building and Mechanical Sciences, Kongu Engineering College, Erode</i>
P23	A material processing technique for the study of flash gutter design influence and deformation behaviour in closed die forging Hari Krishna CH, Shameer Basha SK <i>V. R. Siddhartha Engineering College, Vijayawada</i>
P24	Effect of pcd treatment configuration on damping performance of a flexible cantilever-beam K.P. Arulshri, K.S.K.Sasikumar, S Ambalarajan , K Vimal Kumar <i>Kongu Engineering College, Erode</i>
P25	Studies on Poly(lactic acid)/ Poly(caprolactone)/Talc Composites for High Barrier Packaging Applications Shikha Jain , Murali M. Reddy, Amar K. Mohanty, Manjusri Misra, Anup K. Ghosh <i>Centre for Polymer Science and Engineering, Indian Institute of Technology Delhi, New Delhi</i>
P26	Study on tensile behaviour of gongura fiber made polymer Matrix composites G.Venkatachalam, B.Sutharson, S.Narayanan, S.Karthikeyan, K. Bharath <i>School of Mechanical and Building Sciences, VIT University, Vellore</i>
P27	Natural Fiber Reinforced Composites from Novel Green Resin A N Sridevi , A K Beheraa, R K Senb and B Adhikaria <i>Materials Science Centre, IIT Kharagpur, Kharagpur</i>
P28	Study on Iron Oxide Nanoparticle with Chitosan on Silk Fabric AL. Kavitha , H.Gurumalles Prabu <i>School of Chemistry, Alagappa University, Karaikudi</i>
P29	Effects on the strength of FRP composites due to variation in lay up environment conditions. K. Vijaya kumar , Mir safiulla, A.N Khaleel ahmed <i>Gousia College of Engineering, Ramnagaram</i>
P30	Studies on the mechanical properties of naturally woven coir sheath/ polyester composites J.T. Winowlin Jappes, I. Siva , N. Rajini <i>Center for Composite Materials, Kalasalingam University, Krishnankoil</i>
P31	Effect of fiber percentage and compression pressure on mechanical properties of basalt fiber reinforced polymer composites Amuthakkannan. P , Manikandan. V., Winowlin Jappes. J.T., Uthayakumar. M <i>Kalasalingam University, Krishnankoil</i>

P32	Comparative melt flow properties and flow activation energies of binary and ternary blends of nylon-6/lldpe/ethylene-n-butyl acrylate Jitendra Singh , Abhishek Singh, Vishal Das, A. K. Pandey <i>Central Institute of Plastics Engineering and Technology, Hajipur.</i>
P33	Mechanical, morphological, thermal and water absorption properties of abelmoschus esculentus/polyester composites K. Raja Narendra Reddy , D. Anji Reddy D.K. Nageswara Rao, T.O. Varghese, V. Kiran Kumar, KamalKar <i>Central Institute of Plastics Engineering & Technology, Hyderabad, Kakatiya Institute of Technology & Science, Warangal</i>
P34	Characterization of snake grass fiber reinforced polyester composite T.P. Sathish kumar, D. Nallathambi , Navaneethakrishnan <i>Kongu Engineering College, Erode</i>
P35	Effect of Addition of Nano Fumed Silica Fillers in Polyvinyl Based Alcohol Based Adhesive Whitelin Annie Bala , N. Selva kumar, K. Jeyasubramanian, V.S. Benitha <i>Mepco Schlenk Engineering College, Sivakasi</i>
P36	Analysis of strength characteristics in coir and snake grass natural fiber hybrid composites T.P. Sathish kumar, S. Raghavendran , P. Navaneethakrishnan <i>Kongu Engineering College, Erode, Anna University of Technology, Coimbatore</i>
P37	Study of mechanical properties in randomly oriented natural fiber hybrid composites T.P. Sathish kumar, L. Rajesh Kumar , P. Navaneethakrishnan <i>Kongu Engineering College, Erode</i>
P38	Preparation of silver loaded silk fabric by simple adsorption technique S. Ananda Babu , H. Gurumalles Prabu <i>School of Chemistry, Alagappa University, Karaikudi</i>
P39	Mechanical characterization of natural fiber/polymeric composites R. Pazhanivel <i>Indian Institute of Technology Madras, Chennai</i>
P40	Analysis and curing study of fiber-reinforced polyurethane composites Medha Joshi , Smita Jauhari, K. R. Desai <i>Sardar Vallabhbhai National Institute of Technology, Gujarat</i>
P41	Effect of fiber parameters on mechanical properties of natural fiber reinforced polyester composites S. Gnanakumar , S. Velumani, P. Navaneethakrishnan <i>Department of Mechanical Engineering, Kongu Engineering College, Erode</i>
P42	Influence of dextrin on the tensile properties, morphology and biodegradation of low density polyethylene Zeena P. Hamza , Anna Dilfi K. F, Raghul Subin, Thomas Kurian, Saritha G. Bhat

	<i>Cochin University of Science and Technology, Cochi, Kerala</i>
P43	Enhancement in the thermal stability of polymer blends by Cross linking D.Saravanan , P.N. Sudha <i>Sathyabama university, Chennai</i>
P44	Synthesis and characterization of chitin-bentonite polymer blend in the presence of cross linking agents D. Saravanan , P.N. Sudha <i>Sathyabama University, Chennai</i>
P45	Synthesis of particleboards from agricultural waste and natural binder derived from spoiled garlic Avinash Nayak , Pijush Kanti Mandal <i>Central Institute of Plastic Engineering and Technology, Bhubaneswar</i>

CULTURAL PROGRAMME

Date: 25th March, 2011

Time: 7.00 PM onwards

Dinner: 8.30 PM onwards

TECHNICAL SESSION – ORAL

SATURDAY, 26 th MARCH, 2011	
PLENARY LECTURES-8.30-11.15 AM	
Chair: Dr. Ranganath Shastri	Co-Chair: Dr. Vijaikumar
8.30 - 9.00 AM	Electrical, Mechanical & Chemical Characterization of Polymer Matrix – Carbon Nanotube and Nano-Metal Reinforced Composite Materials Prof. S. Bandyopadhyay <i>The University of New South Wales, Sydney, Australia</i>
9.00 – 9.30 AM	Biodegradable Polymers For Tissue Engineering and Controlled Drug Delivery Prof. P. L. Nayak <i>P. L. Nayak Research Foundation, Cuttack</i>
9.30 –10.00 AM	MMT-Clay / Epoxy Nanocomposites for High Performance Applications: Synthesis and Characterization Dr. B. S. R. Reddy <i>Central Leather Research Institute (CLRI), Chennai</i>
10.00 – 10.30 AM	Synthesis of fluorescent polymers through various controlled radical polymerisation (CRP) methods Prof. R. Dhamodharan <i>Department of Chemistry, IIT Chennai</i>
10.30 – 11.00 AM	Plastics in Cryogenics: Vital Role in Magnetoencephalography- An Emerging Clinical Diagnostic Tool in Cardiology and Neurology Dr. T. S. Radhakrishnan <i>Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam</i>
11.00– 11.15 AM	DISCUSSION
11.15 – 11.30 AM	TEA BREAK

SATURDAY, 26th MARCH, 2011

PRODUCT DEVELOPMENT III- 11.30 AM –1.00 PM

INVITED LECTURES

Chair: Dr. T.S. Radhakrishnan

Co-Chair: Dr. P Poomalai

11.30 – 11.50 AM

Innovations in product development

Mr. S. Sundar

R&D Centre, Rane (Madras) Ltd, Chennai

11.50 – 12.10 PM

New Product Development

Mr. R. Sundararaman

Brakes India Ltd., Chennai

CONTRIBUTORY PAPERS

12.10 – 12.25 PM

Parameters effecting the design of cruciform specimen for the biaxial study of glass/epoxy plain weave

B. Dhatreyi, S.Akhilesan, Anuradha Banerjee, Bhanu pant, R.Velmurugan

Department of Applied Mechanics, IIT Chennai

12.25 – 12.40 PM

Recent Inovations in the Tool Room of Automobile and Defence Industries

S. Sivarajan

Sri Sai Ram Engineering College, Chennai

12.40 – 12.55 PM

An Integrated approach to FMEA using DSM

F.J. Emmatty, S.P. Sarmah

Department of Mechanical Engineering, Mar Baselios College of Engineering and Technology, Trivandrum

12.55-1.00 PM

DISCUSSION

1.00 – 1.45 PM

LUNCH

SATURDAY, 26th MARCH, 2011

NANOCOMPOSITES III – 11.30 AM – 1.00 PM

INVITED LECTURES

Chair: Dr. S.N. Jaisankar

Co-Chair: Dr. M. Sarojadevi

11.30 – 11.50 AM

Polymers and Nanocomposites: Materials of 21st Century.

Prof. R. Vasantha Kumari

B.S. Abdur Rahman University, Chennai

11.50 – 12.10 PM

Synthesis And Characterization of Biodegradable Nanocomposites Filled With OMMT

Prof. Navinchandra G Shimpi

University Department of Chemical Technology(UDCT), North Maharashtra University, Jalgaon, Maharashtra

CONTRIBUTORY PAPERS

12.10 – 12.25 PM

A study on mechanical, thermal and electrical properties of MWCNT epoxy composite via supercritical carbon dioxide

Deepak, **Vijai Kumar**, M.G.H. Zaidi

Central Institute of Plastic Engineering and Technology, Lucknow

12.25 – 12.40 PM

The Effect of Nano-Alumina Addition Upon the Mechanical Properties of Glass Fiber/ Epoxy Composite

Mathew John, Raghu V Prakash, Velmurugan. R

Department of Mechanical Engineering, IIT Chennai

12.40 – 12.55 PM

Highly Electrical Conducting Polystyrene/MWCNT Nanocomposites Prepared By in-situ Polymerization

Nilesh Kumar Shrivastava, B.B. Khatua

Materials Science Centre, IIT, Kharagpur

12.55-1.00 PM

DISCUSSION

1.00 – 1.45 PM

LUNCH

SATURDAY, 26th MARCH, 2011

COMPOSITES I- 11.30 AM –1.00 PM

INVITED LECTURES

Chair: Prof. S Bandyopadhyay

Co-Chair: Dr. N Natchimuthu

11.30 – 11.50 AM	Erosion wear behavior of hybrid polymer composites Dr. Alok Satapathy <i>National Institute of Technology, Rourkela</i>
11.50 – 12.10 PM	Nafion / PTFE Composite Membranes for Fuel Cell Applications Dr. K. Ramya <i>Centre for Fuel Cell Technology, Chennai</i>
CONTRIBUTORY PAPERS	
12.10 – 12.25 PM	Stable PTCR characteristics in PMMA/Ag-coated Glass Bead Composites Prativa Kar and B. B. Khatua <i>Materials Science Centre, IIT Kharagpur</i>
12.25 – 12.40 PM	Electrical insulation coating of vegetable oil based polyurethane modified with Leucoemeraldine polyaniline nanofiber Parag A. Wasekar , S.T. Mhaske <i>Institute of Chemical Technology, Matunga, Mumbai</i>
12.40 – 12.55 PM	Multilayer-structured SPSU/SiO ₂ Composite Membranes for Fuel Cell applications Rajangam Padmavathi , Rajendhiran Karthikumar, Dharmalingam Sangeetha <i>Department of Chemistry, Anna University, Chennai</i>
12.55-1.00 PM	DISCUSSION
1.00 – 1.45 PM	LUNCH

SATURDAY, 26th MARCH, 2011	
SYNTHESIS III- 11.30 AM – 1.00 PM	
INVITED LECTURES	
Chair: Dr. S. Sailaja	Co-Chair: Dr. Sania Akhtar
11.30 – 11.50 AM	Preparation and Characterization Of Hierarchical Porous Zeolite Derived with Styrene Butadiene Rubber Latex Prof. G. Unnikrishnan <i>Department of Chemistry, National Institute of Technology (NIT), Calicut</i>
CONTRIBUTORY PAPERS	
11.50 – 12.05 PM	Synthesis and characterization of thiophene containing polyaspartimides R. Sivasankari, M. Sarojadevi <i>Department of Chemistry, Anna University, Chennai</i>
12.05 – 12.20 PM	Synthesis & Characterization of Novel Liquid Crystalline Photoactive Polymer Containing the Chalcone Moiety Sivakumar Jeyasheela, Kathavarayan Subramanian <i>Department of Chemistry, Anna University Chennai</i>
12.20 – 12.35 PM	Synthesis and Characterization of Two Novel Thiophene-Phenylenevinylene Hybrid Monomer G. Vidya, G. Sreelekha, S. Prathapan, V. P. N. Nampoori, C.P.G.Vallabhan and Rani Joseph <i>International School of Photonics, Cochin University of Science and Technology, Cochin</i>
12.35 – 12.50 PM	A novel method for preparation of polymer nano fibers using mechano spinning process B.Sathish Kumar, P.Santosh kumar and R.Vasanthakumari <i>Department of Polymer Technology, B. S. Abdur Rahman University, Chennai</i>
12.50 -1.00 PM	DISCUSSION
1.00 – 1.45 PM	LUNCH

SATURDAY, 26th MARCH, 2011

INNOVATION AND CUSTOMER DEMANDS I- 1.45 – 4.15 PM

INVITED LECTURES

Chair: Dr.K. Ramya

Co-Chair: Shri. S K Sharma

1.45-2.05 PM	The Role Of Capillary Rheometers in Flow Simulation Of Plastics Mr. Marco Bronzoni <i>CEAST INSTRON (ITW Test and Measurement), Italy</i>
2.05 – 2.25 PM	Terafil Water Filter: A Boon For Common People Dr. S. Khuntia <i>IMMT (CSR), Bhubaneswar</i>
2.25-2.45 PM	Development of precision aspheric plastic optics for ophthalmic & low vision applications Dr. Pawan Kapur <i>Central Scientific Instruments Organisation, Chandigarh</i>

CONTRIBUTORY PAPERS

2.45 – 3.00 PM	Flow analysis in plastics product development S. Ilangovan <i>Advanced Research School for Technology and Product Simulation (ARSTPS) Central Institute of Plastics Engineering & Technology, Chennai</i>
3.00 – 3.15 PM	Experimental Strategies for Profile Forming on Aluminium Alloy Al3003 (O) S.P.Shanmuganatan, V.S .Senthilkumar <i>Department of Mechanical Engineering, Anna University, Chennai</i>
3.15 - 3.30 PM	Development of high performance polymer fabric tape as load bearing member in opto-electronic sensor system K.P. Chellamani, S.Senthil Rajan, M.K.Vittopa, M.Sabu Sebastian, K.Sudarsan <i>South India Textiles Research Association, Coimbatore</i>
3.30 – 3.45 PM	Genetic algorithm based multi-objective optimization of the build orientation in FDM S. Malligarjunan, K.Prasanth, M.Chandrasekaran <i>Department of Mechanical Engineering, Rajalakshmi Engineering College, Chennai</i>
3.45 – 4.00 PM	A Talking Bike A. Daniel Martin, R. Prakash, K. Thirupathi Raja <i>Department of Mechanical Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi</i>
4.00 -4.15 PM	DISCUSSION
4.15 - 4.30 PM	TEA BREAK

SATURDAY, 26th MARCH, 2011

COMPOSITES II- 1.45 –4.15 PM

INVITED LECTURES

Chair: Prof. N Shimpi

Co-Chair: Dr. Vijaikumar

1.45-2.05 PM

Recent trends in reinforcement of elastomers

Prof. N. Natchimuthu

Department of Rubber Technology, MIT, Anna University, Chennai

2.05 – 2.25 PM

Machinability and Mechanical properties of natural fiber reinforced hybrid composites

Prof. Thiru Chitrambalam

Tamilnadu College of Engineering, Coimbatore

CONTRIBUTORY PAPERS

2.25 – 2.40 PM

Dynamic response of woven roving glass fiber/epoxy composite laminates subjected to impact loading

R.Velmurugan, and G.Balaganesan

Composite Technology Centre, Department of Aerospace Engineering, IIT Chennai,

2.40– 2.55 PM

Polymer Carbon Nanotubes (CNTs) composites for Membrane Application

Yogesh Jagdale , Avinash Munde, Nikhil Gharat

Chemical Engineering Department, Institute of Chemical Technology, Mumbai

2.55 – 3.10 PM

Hybrid Effect on Damping behaviour of epoxy based Woven fabric composite laminates

Murugan R, Padmanabhan K, Ramesh R, Rajesh M

Sri Venkateswara College of Engineering, Sriperumbudur, India

3.10 – 3.25 PM

Erosion response of SiC filled short bio-fiber reinforced epoxy composites

Manoj Kumar Pradhan, Alok Satapathy, Debadutta Mishra

Purushottam School of Engineering and Technology, Rourkela

3.25-3.40 PM

Preparation, Characterization and Properties of Ethylene Acrylic Elastomer- Conducting Carbon Black Composites

B.P. Sahoo, K.Naskar and D.K.Tripathy

Rubber Technology Centre, IIT Kharagpur

3.40-3.55 PM

On the Mechanical, Thermal and Rheological Characteristics of Aramid Short Fiber Reinforced Thermoplastic Elastomer

Shibulal .G.S, K. Naskar

Rubber Technology Centre, IIT Kharagpur

3.55 – 4.10 PM

Study on cotton fabric coated with Polyaniline-TiO₂ composites

K. U. Savitha, H. Gurumalles Prabhu

School of Chemistry, Alagappa University, Karaikudi

4.10-4.15 PM

DISCUSSION

4.15 - 4.30 PM

TEA BREAK

SATURDAY, 26th MARCH, 2011

NANOCOMPOSITES IV- 1.45 – 4.15 PM

INVITED LECTURES

Chair: Prof. Vasanthakumari

Co-Chair: Dr. S C Shit

1.45 – 2.05 PM

Nanostructured Materials for advanced energy storage devices

Dr. Abdul Majeed

Department of Polymer Technology, B.S. Abdur Rahman University, Chennai

2.05-2.25 PM

Cyanate ester/Multi Walled Carbon Nano Tubes naocomposites as adhesives

Prof. M. Saroja Devi

Department of Chemistry, Anna University, Chennai

CONTRIBUTORY PAPERS

2.25 – 2.40 PM

Polyamide 66/maleated Ethylene Octane-co-polymer Nanocomposites: Investigation of Mechanical, Thermal and morphological Characteristics

N.Sivapatham, N,Natchimuthu, **K. Palanivelu**, S.K.Nayak

Central Institute of Plastic Engineering & Technology, Guindy, Chennai

2.40 – 2.55 PM

Synthesis of Au and Ag Bi-Metallic Nanocomposite for Antimicrobial Applications

P. Ranga Reddy, K.Varaprasad, N.NarayanaReddy, K. Mohana Raju, N.Subbarami Reddy

Sri Krishnadevaraya University, Anantapur

2.55 - 3.10 PM

Synthesis of sulfated β -cyclodextrin/cellulose/ZnO metal nano composites and biological applications

S. Selvam, M. Sundrarajan, S.Ravikumar

Department of Industrial Chemistry, School of Chemistry, Alagappa University, Karaikudi

3.10 – 3.25 PM

Mechanical characterization of PP/MWNT/Clay hybrid nanocomposites

V.Selvakumar, E.Sangeethkumar

Department of Mechanical Engineering, Hindustan University, Chennai

3.25 – 3.40 PM

Lotus-inspired textiles using nanotechnology

Preethi A.V.M, K.Jeyasubramanian

Department of Nanoscience and Technology, Mepco Schlenk Engineering College, Sivakasi

3.40-3.55 PM

Nano rice like structure Polyaniline blends from electro chemical synthesis with Poly(vinyl pyrrolidone) and/ or p-hydro benzoic acid soft templates: Characterization and sensor application

M.Vijayakumar, E Subramanian, D.Pathinettam Padiyan

Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli

3.55 – 4.10 PM

Polyhedral Octasilsesquioxane-Polyimide nanocomposites: Synthesis and Characterization of thermal, dielectric and morphological properties

B.Govindaraj and M.Sarojadevi

Department of Chemistry, Anna University, Chennai

4.10 - 4.15 PM

DISCUSSION

4.15 – 4.30 PM

TEA BREAK

SYNTHESIS IV –1.45 – 4.15 PM**INVITED LECTURES****Chair: Dr. N Somanathan****Co-Chair: Dr. P S G Krishnan****1.45 – 2.05 PM**Development Of Polymer Electrolyte Membranes For Fuel Cell Applications
Dr. D. Sangeetha , *Department of Chemistry, Anna University, Chennai***CONTRIBUTORY PAPERS****2.05 – 2.20 PM**Formulation and Characterization of Lignin-Phenol formaldehyde resin from Industrial Saw Dust
D.V.Wele, V.S.Patil, P.V.Thorat
*Chemical Engineering Department, U.D.C.T., Jalgaon, (M.S)***2.20 – 2.35 PM**Effect of gas phase modification (nitration) on Poly (methyl Methacrylate) (PMMA)- Di vinyl Benzene (DVB) high capacity ion,
Gagnesh Sharma, Shishir Sinha, Shashi
*Department of Chemical Engineering, IIT Roorkee***2.35– 2.50 PM**Synthesis, characterization and use of Poly (N-isopropylacrylamide-co-N-vinylcaprolactam) crosslinked thermoresponsive microspheres for control release of Ciproflaxin hydro chloride drug
B.Mallikarjuna, M.N.Prabhakar, K.Sudhakar, K.Chowdoji Rao, M.C.S.Subha
*Department of Chemistry, Sri Krishnadevaraya University, Anantapur***2.50 – 3.05 PM**Electrochemical synthesis and characterization of polyaniline film ,A high performance electrode material for super capacitor
J.Ramyadevi, K.Jeyasubramanian, A.Marikani,
*Department of Nanoscience and Technology, Mepco Schlenk Engineering College, Sivakasi***3.05 – 3.20 PM**Interfacially polymerized polyaniline nanoblends:
Structure-directing and micro-nano particle diminution roles of Poly(vinyl pyrrolidone) template
P. Rajesh Anantha Selvan, E. Subramanian, N. Vijayakumar, R. Murugesan
*Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli***3.20 – 3.35 PM**Synthesis of Pendant epoxy functional poly dimethyl siloxanes for modification of DGEBA
Jenish Paul, A. Benny Cherian, K.P.Unnikrishnan, Eby Thomas Thachil
*Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi***3.35-3.50 PM**Poly (aniline-co-m-aminobenzoic acid) deposited on poly (vinyl alcohol): Synthesis and ester sensing
S. Adhikari, P. Banerji,
*Materials Science Centre, IIT Kharagpur***3.50 – 4.05 PM**Synthesis and Swelling behavior of Poly(N-cyclohexylacrylamide-co-acrylamide/Sodium Acrylate) Nanocomposite Hydrogels
S.Anbarasan , B.A.Brundha and P.Pazhanisamy
*Sir Theagaraya College, Chennai***4.05 – 4.15 PM**

DISCUSSION

4.15 – 4.30 PM

TEA BREAK

SATURDAY, 26th MARCH, 2011

ORAL PRESENTATION-4.30-5.40 PM

CONTRIBUTORY PAPERS

Chair: Dr. Alok Satapathy

Co-Chair: Dr. Sania Akhtar

4.30-4.45 PM	Preparation and characterization of piezoresistive polyimide/MWCNT nanocomposite for pressure sensor applications Jandas P.J., S. Mohanty , S.K. Nayak, G. Dixit, R.P. Singh <i>Laboratory for Advanced Research in Polymeric Materials (LARPM), Central Institute of Plastics Engineering and Technology (CIPET), Bhubaneswar</i>
4.45-5.00 PM	Wear Response of LD Slag Filled Poly-ether-ether-ketone Composites Biswajit Boity , Alok Kumar Sahu and Alok Satapathy <i>Department of Mechanical Engineering, National Institute of Technology, Rourkela</i>
5.00-5.15 PM	Structural and Thermal Degradation Study of Copolymer Resin Derived from 8-Hydroxyquinoline 5-sulphonic acid, Dithiooxamide and Formaldehyde Rajesh H. Gupta , Wasudeo B. Gurnule , Sharayu S. Katkamwar , Sanjiokumar S. Rahangdale <i>Department of Chemistry, K.Z.S. College, Kalmeshwar., Nagpur</i>
5.15-5.30 PM	Synthesis and Characterization of PVA composites of Nano hydroxyapatite C. P. Dhanalakshmi , L. Vijayalakshmi, V. Narayanan <i>School of Chemical Sciences, University of Madras, Chennai</i>
5.30 – 5.40 PM	DISCUSSION

POSTER NO.	POSTER SESSION
P46	Synthesis and Characterization of Polyimidocarbamates by the Copolymerization of Aryl Cyanates With Acid Anhydrides K. Kumudha , M. Sarojadevi <i>Anna University, Chennai</i>
P47	Synthesis and Characterization of Chitosan Based Graft Copolymer: An Efficient Adsorbent for Dye Industry Wastewater R. Hemalatha , I. Yuvarani, P.N. Sudha <i>Manonmonium Sundaranar University, Tirunelveli</i>
P48	Synthesis and Characterization of Benzoxazines and their Thermally Activated Curing V Sudha , M Sarojadevi <i>Anna University, Chennai</i>
P49	Synthesis and Characterization of Polyaniline–Polypyrrole Copolymer Materials Ceril Jeffrey. A , E. Subramanian, N. Vijayakumar, D. Pathinettam Padiyan <i>Manonmaniam Sundaranar University, Tirunelveli</i>
P50	Room-Temperature Synthesis of Soluble Carbon Nanoparticles and Nanotubes by the Sonication of Graphene Oxide Nanosheets Using Hopg Method P. Santhoshkumar , S. Ravi <i>Mepco Schlenk Engineering College, Sivakasi</i>
P51	Synthesis, Characterization and Properties of Soluble and Insoluble Polyimides M. Dhakshnamoorthy , R.Vasanthakumari <i>B.S.Abdur Rahman University, Chennai</i>
P52	Gel Polymer Electrolyte From PVC/Nano-Silica Composite for Lithium Polymer Battery Application Shruti Satpathy , M. Abdul Kader <i>Central Institute of Plastics Engineering and Technology, Bhubaneswar</i>
P53	Analysis of temperature effect and additive impact on Polyurethane based elastomers Rengasamy. M, Kumaraguru. K, Vivek Sheraton. M <i>Anna University of Technology, Tiruchirapalli</i>
P54	Modification of Epoxy Resin with N-Phenyl Maleamic Acid P. Elavarasan , P. Santhana Gopala Krishnan

	<i>Central Institute of Plastics Engineering and Technology, Chennai</i>
P55	Electrical properties of polymer metal nanocomposites for wearable sensor G. Vijayakumari , K. Jeyasubramanian, R.Mala <i>Mepco Schlenk Engineering College, Sivakasi</i>
P56	Biodegradable polyethylene based nanocomposite for agricultural applications T. Brinda , V.S. Benitha, K.Jeyasubramanian <i>MepcoSchlenk Engineering College, Sivakasi</i>
P57	Mechanical properties of sandwich nano composite material NRR. Anbusagar, V. Baalashubramanian <i>Hindustan University, Chennai</i>
P58	Differential scanning analysis of polypropylene/CNT/clay nanocomposites V. Selvakumar , K. Palanikumar <i>Sathyabama University, Chennai.</i>
P59	Studies on blends of nylon 6 - thermoplastic polyurethane with nano clays Ceasar Guna Singh, S.Soundararajan , K. Palanivelu <i>Central Institute of Plastics Engineering and Technology, Chennai</i>
P60	Impact Properties of Sandwich nano Composite Material NRR. Anbusagar, P.K. Giridharan <i>Hindustan University, Chennai</i>
P61	Effect of gamma irradiation on some engineering plastics: a study of polytetrafluoroethylene A. Raju, N. Bikshmaiah , Y. Srinivas, S. ramesh, K. Madhukar, B. Sanjeeva rao <i>Ramanandatirtha Engineering College, Nalgonda</i>
P62	Green plastic (bio plastic) materials for automobile Prashant yadav <i>Tata Technologies LTD. Onsite for Tata Motors, Pune</i>
P63	Dynamic analysis of woven fabric carbon/epoxy composite beams C. Senthamarai kannan, R. Ramesh, S. Balaji <i>Sri Venkateswara College of Engineering, Sriperumbudur</i>
P64	Study on thermal conductivity of metal particle filled polymer composites Kunal K Saraf , Liza Das, Lucy Mohapatra, Debasmita Mishra, Sonam Agrawal and Alok Satapathy <i>National Institute of Technology, Rourkela</i>
P65	Effective thermal conductivity of TiO ₂ -epoxy composites Sonam Agrawal , Kunal K Saraf, Liza Das, Lucy Mohapatra, Debasmita Mishra, Alok Satapathy <i>National Institute of Technology, Rourkela</i>

P66	Radiation effects in some engineering plastics: Polymethyl methacrylate D. Suresh Kumar , N. Mohan Babu, P.Vijay Prakash, B.Ashok, K.Madhukar, B.Sanjeeva Rao <i>Nizam College, Basheer bagh, Osmania University, Hyderabad</i>
P67	Cycle time optimization of an injected molded part using S/N ratio and plastic advisor S.T. Saravanan <i>V.S.V.N Polytechnic College, Virudhunagar</i>
P68	Optimization of Machining Parameters for Aluminium and Silicon Carbide Composites Using Tacuchi Technique C. Dhavamani , T. Alwarsamy <i>Mahendra Engineering College, Namakkal</i>
P69	Design and Analysis of Shuttle Mechanism for Polymerized Bag Weaving Circular Loom by using RPY & ANSYS R. Raffik , M. Boopathi <i>Kongu engineering college (Autonomous), Perundurai, Erode</i>
P70	Influence of short <i>sansevieria cylindrica</i> fibres filled epoxy composites on thermal and mechanical parameters M. Ashok kumar , G.Ramachandra Reddy, G.Harinatha Reddy, K. Hemachandra reddy, Y.Venkata Mohana Reddy <i>Sri Krishnadevaraya University College of Engineering & Technology, Anantapur</i>
P71	Mechanical and thermal properties of sustainable coconut shell powder filled polyester/composites M. Ashok Kumar, G. Ramachandra Reddy, G. Harinatha Reddy <i>Sri Krishnadevaraya University College of Engineering & Technology, Anantapur</i>
P72	Studies of mechanical and chemical properties of rice husk polypropylene (RHPP) composites Vinay Kumar , Shishir Sinha, Manohar Singh Saini, and B K Kanungo <i>Sant Longowal Institute of Engineering and Technology (SLIET), Punjab</i>
P73	Tensile and Thermal Properties of Natural Fiber Sorghum Vulgaris (Poaceae) Reinforced Epoxy Composites: Effect of Fiber Length M. Ashok kumar , G. Ramachandra Reddy, G. Harinatha Reddy, N. Subbarami Reddy <i>Sri Krishnadevaraya University College of Engineering & Technology, Anantapur</i>
P74	Performance of natural fiber <i>zea mays</i> reinforced epoxy composites: Effect of fiber orientation M. Ashok kumar, G. Ramachandra Reddy , G. Harinatha Reddy <i>J.N.T. University Anantapur</i>
P75	Thermal and flammability behavior of marine grade polyester resin R.Daulath Banu , R. Vasanthakumari <i>B.S.Abdur Rahman University, Chennai</i>
P76	Flexural properties of borassus seed shot fiber reinforced polyester composites K. Ramanaiyah, A.V Ratna Prasad , K. Hema Chandra Reddy, K. Mohan Rao, D. Ravi Chandra <i>V R Siddhartha Engineering College, Vijayawada</i>

P77	Thermal properties of borassus seed shoot fiber reinforced polyester composites K.Ramanaiah, A.V Ratna Prasad, K. Hema Chandra Reddy, K.Mohan Rao, D. Ravi Chandra <i>V R Siddhartha Engineering College, Vijayawada</i>
P78	Dry sliding wear characteristics of peek composites filled with fly ash Alok Kumar Sahu , Biswajit Boity, Alok Satapathy <i>National Institute of Technology, Rourkela</i>
P79	Surface treatment of coir fiber and its effect on mechanical properties of coir-polyester composite S.Velumani , P.Navaneetha Krishnan, S.Jayabal <i>Velalar College of Engineering, Erode.</i>
P80	Study on mechanical, thermal and electrical properties of poly (vinylidene fluoride)-conducting filler composites Mayank Jain , Shyamal K.Bhattacharjee, Debajit Kalita, Neeraj K. Sharma, M Abdul Kader <i>Central Institute of Plastics Engineering & Technology, Bhubaneswar</i>
P81	Regression model and influence of fiber parameter on tensile, flexural and impact properties of coir-sisal hybrid-vinyl ester composite G. Tharanitharan , S. Velumani, P. Navaneetha Krishnan <i>Kongu Engineering College, Erode</i>
P82	A Study on Abrasive Wear behaviour of Aluminium-Silicon Carbide (Al (LM-4)-SiC) Metal Matrix Composite S. Jeyan , K.Jagan, K.Nithin, R.Bhaskar, R.Parthiban, V.Muthukumar, A.Sureshbabu <i>Saveetha Engineering college, Chennai.</i>
P83	A study on mechanical properties of natural fiber reinforced laminates of epoxy (ly 556) polymer matrix composites Antony George Fernando , D. Arunkumar, D. Mohanraj, B. Ramesh, A. RajeshKannan, V. Muthukumar, A. Suresh babu <i>Saveetha Engineering College, Chennai</i>
P84	Studies on polymer based natural composite material reinforced with sisal and roselle N. Shanmuga sundaram , N.Sangeetha, I.Rajendran <i>Dr. Mahalingam college of Engineering and Technology, Pollachi</i>
P85	Effect of polymerization on thin film Mg (OH) ₂ coating in a silica substrate by xrd/sem characterization M.K. Suresh Kumar , N. Nithyavathy <i>School of Building and Mechanical Sciences, Kongu Engineering College, Erode</i>
P86	Utilization of cotton textile waste as reinforcement in low density polyethylene based bioplastics Rathish Rajan , Pinchu Elizabath Thomas, Balagopalan C <i>School of Building and Mechanical Sciences, Kongu Engineering College, Erode</i>
P87	Weathering and biodegradation studies on lldpe-pva blends

	Vidya Francis , Raghul Subin S, Sarita G Bhat, Eby Thomas Thachil <i>Cochin University of Science and Technology, Kerala</i>
P88	Synthesis of copoly (<i>rac</i> and l-lactic acid): microstructural arrangement, effect of thermal and degradation behaviour. S Nagarajan , B S R Reddy <i>Industrial Chemistry Laboratory, Central Leather Research Institute, Chennai</i>
P89	Studies on eco-friendly bio based polyurethane foam incorporated with bio fibre/nano clay T. O. Verghese, S. Barathi, Devanand Bambole, M. Senthil <i>Central Institute of Plastics Engineering and Technology, Chennai</i>
P90	Sol-gel derived Hybrid Nanocomposite Coatings for Plastics R. Subasri , G. Padmanabham <i>International Advanced Research Centre for Powder Metallurgy and New Materials, Balapur, Hyderabad</i>
P91	3D Analysis of Textile Structures and Composite Polymer Materials with High Resolution Computed Tomography S. Srinivasan , Changdar Samaresh, Oliver Brunke, Thomas Paul <i>GE Sensing & Inspection Technologies, Powai, Mumbai</i>

CLOSING CEREMONY

Date: 26th March, 2011

Time: 6.30 PM – 7.00 PM

CULTURAL PROGRAMME

Date: 26th March, 2011

Time: 7.00 PM onwards

Dinner: 8.30 PM onwards

SIGHT SEEING

Date: 27th March, 2011

Schedule

8.00 AM	Leaving for Mahabalipuram from Respective Hotels
12.30 PM – 1.30 PM	Lunch @ Mahabalipuram
5.30 PM	Arrival to Respective Hotels