Program Schedule

Day # 1 – Technical Session

Theme: Nanocomposites – Catalytic activity

Technical Session:01

Date: 16-01-19 **Time: 4.25 – 6.25 PM** **Venue: Hall 1**

INV48	**A Journey Towards an Eco-friendly Environment: Synthesis and Application of Nanoparticles** **G. Madhumitha** Chemistry of Heterocycles and Natural Product Research Laboratory, Department of Chemistry, School of Advanced Science, Vellore Institute of Technology, Vellore, Tamil Nadu, India. E mail: madhumitha.g@vit.ac.in
INV11	**Metal Halide Perovskite Nanomaterials for Diverse Applications** **G. Sahaya Dennish Babu** Department of Physics, Chettinad College of Engineering and Technology, Karur, Tamil Nadu. Email:dennishnano@gmail.com
INV56	**Advanced nano Materials: Synthesis and Effect of Morphology on Properties** **B.M. Nagabhushana** Dept. of Chemistry, M.S. Ramaiah Institute of Technology, Bangalore-560 054. Email- bmnshan@yahoo.com
TS01#01	**Evaluation of Crosslinked PVOH Nanocomposite Films for its Compatibility in Packaging Deep Fat Fried Food Product** **S Vasantha kumar , V A Sajeevkumar and R Rajamanickum** Food Engineering and Packaging Division, DRDO, Siddarthanagar, Mysuru; svkumar.chem@gmail.com
TS01#02	**Synthesis, Characterization, Catalytic Activity and Splinting Activity of Nano Ag End Capped L-Glutathione Bridged Amphiphilic Diblock Copolymer** **Jeyapriya M[a], Meenarathi B[a] and Anbarasan R[b]** [a]Department of Polymer Technology, Kamaraj College of Engineering and Technology, Virudhunagar, Tamilnadu, India, [b]Department of Chemical Engineering, National Taiwan University, Taipei E-mail: anbu_may3@yahoo.co.in
TS01#03	**Influence of Graphene Nanoplateletes on Mechanical Properties of Epoxy-Carbon Fiber Composites** **Hadimani Shivakumar[a] and N. M. Renukappa[b]** [a] Department of Electronics and Communication Engineering, Kalpataru Institute of Technology, Tiptur, India [b]Department of Electronics and Communication Engineering, JSS Science and Technology University, Mysuru, India. Email: sk_hadimani@yahoo.com
TS01#04	**An Efficient CNTs/Ag_2WO_4/Ga_2O_3 Nanocomposite Synthesis, Characterization and their Application for Photocatalytic Activity, Heavy Metal Analysis and its Biocompatibility** **G. Akshatha[a,b] M. R. Abhilash[a], K. Jagadish[b], Dhananjay K.P and S.**

	Srikantaswamy [a]Department of Studies in Environmental Science, University of Mysore, Manasagangotri, Mysore, India [b]Centre for Materials Science and Technology, Vijnana Bhavan, University of Mysore, Manasagangotri, Mysore, India [c]Dept of Studies in Chemistry, University of Mysore, Manasagangotri, Mysore, India [d]Mangalore University, Mangalagangothri, D.K, Karnataka, India.
TS01#05	**Development of Ultraviolet Blocking Super-hydrophilic Transparent Nanostructured Thin Film for Automotive Applications** **Baijayanti Ghosh[1], C.S. Naveen[2], Rajat G A.[3]R. Suresh[1], and A.R. Phani[2]** [1]Department of Chemical Engineering, Rashtreeya Vidyalaya College of Engineering, Bengaluru, Karnataka, India [2]Innovative Nano & Micro Technologies Private Limited, Bengaluru, India [3]Dept of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal
TS01#06	**Solution Combustion Synthesis, Structural Characteristics and Enhanced Dyes Removal of Co_3O_4/CoO Semiconductor Nano Heterostructures** **Khaled Alkanad[1], Abdo Hezam[2] and Lokanath N. K.[1*]** [1]Department of Studies in Physics, University of Mysore, Manasagangotri, Mysuru- 06, [2]Center of Materials Science and Technology, University of Mysore, Vijana Bhavana, Manasagangotri, Mysuru. E-mail: lokanath@physics.uni-mysore.ac.in

Program Schedule

Day # 1 – Technical Session

Theme: Nanocomposites

Technical Session: 02

Date: 16-01-19 **Time: 4.25 – 6.25 PM** **Venue: Hall 2**

INV23	**Multifunctional Polymeric Nanocomposites** **Soney C George** Center for Nanoscience and Technology, Amal Jyothi College of Engineering, Koovappally P.O, Kottayam, Kerala, India. *email- soneygeo@gmail.com
INV40	**Colour Switching Polymer Nanocomposites for Photonic Applications** **Sachhidananda Shivanna[‡], Nithin Kundachira Subramani[$‡*], Shilpa Kasargod Nagaraj [‡] and Hatna Siddaramaiah [‡*]** ‡ Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysuru - 570 006, India. $ Department of Chemistry, The National Institute of Engineering, Mysuru - 570 025, India.*E-mail: nithinks@nie.ac.in, siddaramaiah@gmail.com
INV49	**Synchrotron Source based X-Ray Diffraction Studies of Multi-Layered Perovskite Thin Films** **Siddharth Joshi** Centre for Nanotechnology, National Institute of Engineering, Mysore Email: sjoshi@nie.ac.in
TS02#01	**Saccharide-based Polymer Architectures Development and Their Functionalization**

	and Formation of Nanoparticles and Biocompatibility **P. Krushna Kaduba, I. Nagamalleswara Rao, T. S. Kumar, N. N. Malleswara Rao, and A. V. Sesha Sainath*** Polymers and Functional Materials and Fluoro-Agrochemicals Department and Academy of Scientific & Innovative Research (AcSIR), CSIR-Indian Institute of Chemical Technology, Hyderabad 500007, TS, *E-mail: avssainath@yahoo.com;avss@csir.iict.in
TS02#02	**Novel Nano-Thermoplastic Vulcanizates (Tpvns) Based on New Generation EPDM: Development, Properties and Various Applications** **Asit Baran Bhattacharya[†‡] and Kinsuk Naskar[†]*** [†]Rubber Technology Centre, Indian Institute of Technology Kharagpur – 721302, West Bengal, India. Email:asitrkmv94@gmail.com&naskark73@gmail.com
TS02#03	**Optical Properties of Poly(3,4-ethylenedioxythiophene)-Graphene Nanocomposites** **Mohsina Taj, S. R. Manohara*** Nanocomposites and Materials Research Lab, Department of Physics, Siddaganga Institute of Technology, Tumakuru - 572103, India. Email: sr.manohara@yahoo.com
TS02#04	**Thermal and Electrical Studies of PVA based Nanocomposites** **J. Selvi[a] and V. Parthasarathy[b]** [a*,b]Department of Physics, Hindustan Institute of Technology and Science, Padur, Chennai-603103, Tamilnadu, India. E-mail: jselvi@hindustanuniv.ac.in
TS02#05	**Effect of Nano-Silica on the Morphology of Polypropylene/Silica Nanocomposite Foam** **Anish Kumar[a], Bhaskar Patham[b], Sanjay K. Nayak[a]** [a]*Central Institute of Plastics Engineering and Technology Chennai, India [b]SABIC Technology Centre, Bangalore-562125, Email: anish83007@yahoo.com
TS02#06	**Understanding the Role of Fillers in Controlling AC Conductivity of Epoxy-glass Nanocomposites** **Bommegowda K. B.[a] and N. M. Renukappa[b]** [a] Research Scholar, Department of Electronics and Communication Engineering, JSS Science and Technology University, Mysuru, Karnataka, India N.M.A.M. Institute of Technology Nitte, Udupi, Karnataka, India [b]Department of Electronics and Communication Engineering, JSS Science and Technology University, Mysuru, India. Email: bgowda_kbl@nitte.edu.in

Program Schedule
Day # 1 – Technical Session

Theme: Water Treatment
Technical Session: 03
Date: 16-01-19 **Time: 4.25 -6.25 PM** **Venue: Hall 3**

INV-08	**Innovated Polymer Materials and their Targetted Applications. Technology Jump** **Dr. K. Natarajan** RVCE Bangalore
INV-16	**Improved Materials for Sustainable Environmental Applications**

	Dr. Shivaraju H Puttaiah, Department of Water & Health, Faculty of Natural Sciences, JSS Academy of Higher Education and Research, Mysuru-570015, India. Email: **shivarajuenvi@gmail.com**
INV42	**Design of Advanced Catalysts for Energy and Environmental Applications** **Benjaram M. Reddy** Catalysis and Fine Chemicals Department, CSIR – Indian Institute of Chemical Technology, Hyderabad, India. E-mail: bmreddy@iict.res.in
TS03#01	**Direct Synthesis of AlOOH/$Al(OH)_3$ Doped Solvothermal Carbon from an Engineered Eutectic System for Sustainable Water Purification** **Manohara Halanur M.,[a] Sanna Kotrappanavar Nataraj,[a,b] and Dibyendu Mondal[a]** [a] Centre for Nano & Material Science, JAIN (deemed to be University), Jain Global Campus, Bangalore, India [b]IMDEA Water Institute, Avenida Punto Com, 2. Parque Científico Tecnológico de la Universidad de Alcalá. Alcalá de Henares. 28805 MADRID. Email: m.dibyendu@jainniversity.ac.in; sk.nataraj@jainuniversity.ac.in**;**
TS03#02	**Silicotungstic Acid Loaded Mixed Matrix Membranes of Nacmc/Poly(1-Vinylpyrrolidone–Co-Vinylacetate) for Pervaporation Dehydration of Isopropyl Alcohol** **Chintha Madhavi[1], Marata Chinna Subbarao Subha[2], Kashayi Chowdoji Rao[1], and Rapoli JeevanKumar[3]** [1]Department of Polymer Science & Technology, Sri Krishnadevaraya University, Ananthapuramu, Andhra Pradesh, India. Email : chinthamadhavim@gmail.com [2]Department of Chemistry, Sri Krishnadevaraya University, Ananthapuramu, Andhra Pradesh, India. [3]Department of Physics, Sri Krishnadevaraya University, Ananthapuramu, Andhra Pradesh
TS03#03	**Powerful Adsorbent Derived from Cigarette Butts Waste for Sustainable Water Purification** **Ashok Shrishail Maraddi[a], Ashesh Mahto[a], Glenita Bridget D'Souza[a], S. K. Nataraj[ab]** [a]Sustainable Energy Materials and Processes research group, Centre for Nano & Material science, Jain Global Campus, Jain University, Bangalore 562112, India. [b]IMDEA Water Institute, Avenida Punto Com, 2. Parque Cientfico Tecnologico de la Universidad de Alcala, Alcala de Henares, 28805 Madrid, Spain E-mail: sk.nataraj@jainuniversity.ac.in
TS03#04	**TiO_2 Photocatalysis: Studies on Recycle and Reuse of Photocatalyst and Treated Water for Seed Germination** **Kumari Sonu[1], Shivaraju H P[1] and Vikram S[2]** [1]Division of Environmental Science, Department of Water and Health, JSS Academy of Higher Education and Research, Mysuru, Karnataka [2]Department of Instrumentation and Applied Physics, Indian Institute of Science, Bengaluru, Email: shivarajuenvi@gmail.com
TS03#05	**Ag DopedZnO/g-C_3N_4 Heterostructures as Multifunction Photocatalysts** **Mohammed Abdullah Bajiri[1], Abdo Hezam[2], K. Namratha[2], R. Viswanath[1], H.S.**

	Bhojya Naik[1] and K. Byrappa[2] [1]Department of Studies and Research in Industrial Chemistry, School of Chemical Sciences, Kuvempu University, Shankaraghatta, India. [2]Center for Materials Science and Technology, University of Mysore, Vijana Bhavana, Manasagangothiri, Mysuru, Email- hsb_naik@rediffmail.com**;** mohammad20202@gmail.com**;**
TS03#06	**Removal of Fluoride from Groundwater using Aluminum Electrodes in Electro coagulation Reactor** **Vishishtta Nagaraj[1] and B Manoj Kumar[2]** [1]Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore, Karnataka, India; Email: vishunagaraj@gmail.com [2]Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore, India; Email: bmanoj@sjce.ac.in
TS03#07	**Treatment of Textile Industry Wastewater Using Electro-Fenton Process Using Iron And Graphite Electrodes** **Parinitha T Niranjan and Bhumika M** Department of Environmental Engineering, SJCE, JSS Science and Technology University, Mysuru, India

Program Schedule

Day # 1 – Technical Session

Theme: Drug delivery

Technical Session: 04

Date: 16-01-19 **Time: 4.25 – 6.25 PM** **Venue: Hall 4**

INV-65	**Interpenetrating Polymer Network Hydrogel Blend Membranes of Chitosan and Hydroxyethyl Cellulose for Controlled Release of Curcumin.** **K. Chowdoji Rao** Department of Polymer Science & Technology, Sri Krishnadevaraya University, Ananthapuramu, Andhra Pradesh, India
INV-59	**Development of Novel Bio-Composite from Agro-Waste for Structural Applications** **J. S. Binoj** Micromachining Research Centre, Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh, India
INV33	**Role Polymer to Improve Absorption of Poorly Water Soluble Drug: A Systematic Study** **P K Kulkarni** Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, Sri Shivarathreeshwara Nagara, Mysuru, India. Email: pkkulkarni@jssuni.edu.in
TS04#01	**Evaluation of the influence of gelatin on the biocompatibility of poly(lactic acid) foams** **R. Rarima, and G. Unnikrishnan** Polymer Science and Technology Research Laboratory, Dept of Chemistry, National Institute of Technology Calicut, Kerala 673601, India. Email: unnig@nitc.ac.in

TS04#02	**Fabrication of Dual Cross Linked Sodium Alginate/Carrageenan Microbeads for Controlled Release of Levofloxacin and their Antibacterial Studies** **A. Parandhama[1] and M.C.S. Subha[2]** [1]Department of Polymer Science & Technology, Sri Krishnadevaraya University, Anantapuramu, Andhra Pradesh, India – 515 0 03. [2]Dept of Chemistry, Sri Krishnadevaraya University, Anantapuramu, AP, India.
TS04#03	**Dual Responsive Cyclotriphosphazene Based Hydrogels: Synthesis, Diffusion and Drug Release Characteristics** **S. Eswaramma, K. Nagaraja, and K.S.V. Krishna Rao** Polymer Biomaterial Design and Synthesis Laboratory, Department of Chemistry, Yogi Vemana University, Kadapa, Andhra Pradesh E mail: ksvkr@yogivemanauniverisity.ac.in
TS04#04	**Biodegradable Polymer Based Nano-Formulation to Co- Deliver Paclitaxel and Curcumin for Cancer Therapy** **Joyceline Praveena D[1] and Bharath Raja Guru[1*]** [1]Department of Biotechnology, Manipal Institute of technology, Manipal Academy of Higher education, Manipal, Karnataka-576104. Email: bharath.guru@manipal.edu
TS04#05	**A study on the effect of poly lactic co glycolic acid (PLGA) nanoparticles with folic acid on the surface to target folate receptors over expressed by gliama cells and macrophages** **Sriprasad Acharya[1], Joyceline Praveena D[2] and Bharath Raja Guru[2]** [1]Dept of Chemical Engineering, Manipal Institute of Technology, MAHE, Manipal [2]Dept of Biotechnology, Manipal Institute of Technology, MAHE, Manipal Email: bharath.guru@manipal.edu
TS04#06	**Effect of Mineralized and Demineralized Teeth Matrix on Cell Proliferation and Osteoblastic Differentiation of Human Dental Pulp Stem Cells- *In Vitro*** **Chethan Kumar J. S. and Basan Gowda S Kurkalli** Nitte Centre For Stem Cell Research & Regenerative Medicine (NUCSReM), K. S. Hegde Medical Academy (KSHEMA), Nitte (Deemed to be University), Mangalore.
TS04#07	**Fabrication of Protein Nanofibers for Diabetic Wound Healing** **T. Chiome and Asha Srinivasan** Department of Nanoscience & Technology, JSS Academy of Higher Education & Research, Mysuru, India. Email: vasan@jssuni.edu.in

Program Schedule

Day # 1 – Technical Session

Theme: Polymer Composites

Technical Session: 05

Date: 16-01-19 **Time: 4.25 – 6.25PM** **Venue: Hall 5**

INV-64	Research on the flammability of Natural fiber/polymer matrix composites **M.N. Prabhakarand Song Jung-il[a]** *The Research Institute of Mechatronics, Changwon National University, Changwon, Korea

	[a]Department of Mechanical Engineering, Changwon National University,Changwon, Korea.Email: drprabhakar@changwon.ac.kr
INV06	**India @ DESY: State of the art Synchrotron Facility Access for Indian Scientists and Exploring Materials at Extreme Conditions** **Shrikant Bhat, Robert Farla and Wolfgang Drube** Photon Science, Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany Email: urshrikant@gmail.com
INV28	**Karakuri - Emerging Trend in Manufacturing** **B.Thej Kumar** AVP- Operations, Product Development & Quality,Toyoda Gosei South India, Bidadi, Bengaluru, India
TS05#01	**Preparation of Biobased Unsaturated Polyester Resin Using Bio- Sourced Sebacic and Itaconic Acid** **Pratiket Bamane, Kunal K Wadgaonkar and R. N. Jagtap** Institute of Chemical Technology, Mumbai, India. Email: rn.jagtap@ictmumbai.edu.in, jagtap7@gmail.com
TS05#02	**Investigation of Spirulina Platensis Reinforced Unsaturated Polyester/Polyurethane Semi Interpenetrating Polymer Network Biocomposite** **Murtuza Ali Syed[a], Zahra Sulaiman Al-Shukaili[a], and S. Feroz[b]** [a]Department of Mechanical and Industrial Engineering, College of Engineering, National University of Science and Technology, Al-Hail, PC 111, Sultanate of Oman. [b]Department of Petroleum Engineering, NIMS University, Jaipur, Rajasthan, India. E-mail: smurtuzaali@gmail.com, syedmurtuza@nu.edu.com
TS05#03	**Investigation on Sliding Wear Behavior of Aluminium-Silica Composites** **Mallikarjuna G. B[*] and E. Basavaraj [**]** [*]Kalpataru Institute of Technology, Tiptur [**]Jawaharlal Nehru National College of Engineering, Shimoga, email: mallikarjun.gb06@gmail.com
TS05#04	**Liquid rubber toughened epoxy resin** **Chandresh M.P, Pradeepa. K.G, Roopa, S and Siddaramaiah** Department of Polymer Science & Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, JSSTI Campus, Mysuru –6, India. Email: roopasm2000@jssstuniv.in
TS05#05	**Effect of Wear Properties on Coconut Shell Powder Filled Eco-Friendly Brake Pad Composites Using Taguchi Method** **Rudramurthy, R. Ravishankar and M. V. Mahesh** Department of Mechanical Engineering, Sri Jayachamarajendra College of Engineering, Mysuru-570006, India
TS05#06	**Effect of Polytetrafluoroethylene and Silicone Polymer Content on Physico-Mechanical and Tribological Behavior of Polyoxymethylene Blends** **M.R. Shankare Gowda[1&2], S. Srinivas[3] and Siddaramaiah[1*]** [1]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysore- 570 006, India [2]Department of Mechanical Engineering, Rajeev Institute of Technology, Hasan, India

	[3]Brakes India Private Limited, Sundaram Polymers Division, KIADB Industrial Area, Nanjangud-571 302,India, Email: sr63@sjce.ac.in
TS05#07	**Fabrication and Enhancement of Mechanical Properties and Healing Efficiency of Hybrid Self-Healing Composites** **C. Naga Kumarand Song Jung-il** Department of Mechanical Engineering, Changwon National University, Changwon, Korea, Email: jisong@changwon.ac.kr

Program Schedule

Day # 2 – Technical Session

Theme: Polymer Composites

Technical Session: 06

Date: 17-01-19 **Time: 11.45 – 1.45 PM** **Venue: Hall 1**

INV12	**Virtual Chemistry Lab: Designing Improved Materials Using State-of-the-Art Computational Chemistry Simulations** **Teun Sweere[1], Bhaskar Patham[2], Vijayakumar Sugur[2], Jan-Willem Handgraaf[1], Rob Duchateau[3], Lidia Jasinska-Walc[3] and Maria Soliman[3]** [1]CULGI B. V., Leiden, The Netherlands [2]SABIC Technology & Innovation, SABIC Technology Center, Bangalore, India [3]SABIC Technology & Innovation, SABIC Technology Center, Geleen, The Netherlands Email: bhaskar.patham@sabic.com
INV09	**Directed Assembly of Hierarchical Supramolecular Block Copolymers** **E. Bhoje Gowd,* Deepthi Krishnan and R.B. Amal Raj** Materials Science and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum 695 019, Kerala, India. Email- bhojegowd@niist.res.in
INV26	**A Review on Abrasion Resistance of Fiber Reinforced Polymeric Composites with Ceramic Fillers** **B. Suresha** The National Institute of Engineering, Mysuru-570 008 and affiliated Visvesvaraya Technological University, Belagavi, Karnataka, India Corresponding Author: B. Suresha, sureshab@nie.ac.in
TS06#01	**Performance of Abaca-Glass Fiber Composite Through Mechanical Tests** **Maruthi Prashanth B H[1], P.S. Shivakumar Gouda[2] and I. Sridhar[2]** [1]Department of Mechanical Engineering P A college of Engineering, Visvesvaraya Technological university, Mangalore , Karnataka India- 547153 [2]Department of Mechanical Engineering, SDM College of Engineering & Technology, Dharwad, India. Email:ursshivu@gmail.com
TS06#02	**Performance Evaluation of Multifiber Reinforced Hybrid Composites under the Influence of Thermal Load** **Lingesh B V[a], B N Ravikumar[a], and B M Rudresh[b]** [a]Department of Mechanical Engineering, Bangalore Institute of Technology, Bangalore [b]Dept of Mechanical Engineering, Government Engineering College, K R Pet

	Email: blingesh@gmail.com
TS06#03	**Investigation of Tensile and Flexural Properties of Epoxy Based Reinforced with Sugarcane Trash and Kevlar Pulp Filler Hybrid Polymer Composites** **Mohit Vishnoi and Veerendra Kumar A N** Department of Mechanical Engineering, J S S Academy of Technical Education, Noida-201301, E-mail: vishnoi.mohit06@gmail.com[1], anvkumar38@gmail.com[2]
TS06#04	**Green Technology to Amputate Acid Red 119 Dye and Fabricate Composites based on Circular Economy** **Syed Noeman Taqui[1], Siddaramaiah[2], and Akheel Ahmed Syed[*]** [1]Dept of Chemistry, University of Malaya, Kuala Lumpur, Malaysia [2]Department of Polymer Science and Technology, JSS Science & Technology University, Mysuru - 570006, India
TS06#05	**Influence of Post Curing on Viscoelastic Properties of Carbon Epoxy Composite** **Umarfarooq M. A[1], P.S. Shivakumar Gouda[1], I. Sridhar[1]and Harish Chavan[2]** [1]Department of Mechanical Engineering, SDM College of Engineering & Technology,Visvesvaraya Technological University Dharwad, Karnataka, India [2]Department of Polymer Science and Technology, SJCE, JSS Science and Technology University, Mysore**,** Karnataka, India. Email**:**ursshivu@gmail.com
TS06#06	**Evaluation of Static Torsion Capacity of a Hybrid Aluminum Glass Fiber Composite Hollow Shaft** **Satish H S [1]and Rajesh A S[2]** [1]Department of Mechanical Engineering, NIE, Mysuru-570008, India [2]Department of Mechanical Engineering, JSS S&TU, Mysuru-570006, India Email: hss.satisha@gmail.com
TS06#07	**Experimental Investigations on a Bismuth Compound Filled Polycarbonate Composite Material** **Rajeshwari Mirji, Annapurna Shiri, Chaitra Kumbargoudar, Laxmi Kamate, Sushma Marigoudar, Basavarajeshwari M. Baraker and Blaise Lobo** Department of Physics, Karnatak University's Karnatak Science College, Dharwad, Karnataka, India. E mail: blaise.lobo@gmail.com

Program Schedule
Day # 2 – Technical Session

Theme: Materials and Energy
Technical Session : 07
Date: 17-01-19 **Time: 11.45 – 1.45 PM** **Venue: Hall 2**

INV39	**Structural Coloration – A Novel Approach for Paint Coloration without Pigments** **M J Yanjarappa[a] and Luo, Y. (Louie)[b]** [a]Physical & Analytical Center, AkzoNobel India Ltd., International Research Center, Bangalore [b]ASC Regional Solution Lab Manager, VR/CV Asia, AkzoNobel Performance Coatings (Changzhou) Co., Ltd., Shanghai 201600, P.R.China Email: **Louie.Luo@akzonobel.com**

INV27	**A View on Maize Fiber Composites for Structural Applications** **Saravana Bavan** Department of Mechanical Engineering, Dayananda Sagar University, Bangalore-68
INV52	**Structural Modification of Natural Fibers** **T.Demappa and L.R. Shivakumara** Postgraduate Department of Studies and Research in Polymer Science University of Mysore, Sir M.Visvesvaraya postgraduate Centre,Tubinakere, Mandya - 571402 Karnataka, India. Email: tdemappa2003@yahoo.co.in
TS07#01	**Synthesis and Slip Casting of Barium Strontium Alumino Silicate** **N. C. Mookambika and R. Ramachandra Rao** Materials Science Division, CSIR - National Aerospace Laboratories, Bangalore 560017, Email: rrrao@nal.res.in
TS07#02	**Microwave Assisted Defatted Rice Bran based Furfural Acetalization with Alcohols Catalyzed by Copper Ferrite** **Rekha M M[1] and Veerabhadraswamy M[2]** [1]Jain University, School of Graduate Studies, JC Road, Bangalore, rekhamirle@gmail.com [2]Green Chemistry Centre, PES University, Outer Ring Road, Bangalore, Email: **vbs@pes.edu**
TS07#03	**Green and Waste-Sources Derived Heterogeneous Catalysts for Biodiesel Production from Various Feedstocks** **Ningaraju. C, R. Mithun Prakash, M. Sakar and R. Geetha Balakrishna** Centre for Nano and Material Sciences, Jain University, Bangalore, India. E-mail: m.sakar@jainuniversity.ac.in**;** br.geetha@jainuniversity.ac.in
TS07#04	**Crystal Growth and Characterization of Novel Nonlinear Optical Crystal-Glycine Chloroxazone** **Hemaraju B. C, Vinayakprasanna Narayan Hegde[a] and Madhukar B. S** [a]Department of Physics, Vidyavardaka college of Engineering, Mysuru [b]Department of Chemistry, JSS Science and Technology University, Mysuru *Department of Physics, Malnad College of Engineering, Hassan, India Email: hemarajubc@gmail.com
TS07#05	**Synthesis and Characterization of Pr^{3+} Activated Lithium Aluminum SilicatesNanophosphors for LED Applications** **K. R. Jyothi[a], K. R. Bhagya[a], H. Nagabhushana[b], Vinayak prasanna Narayan Hegde[c] and N. M. Nagabhushana[a]** [a]Department of Physics, R.Y.M. Engineering College (VTU-RC), Ballari, India [b]Prof. C.N.R. Rao Centre for Advanced Materials Research, Tumkur University, Tumkur, India [c]Department of Physics, Vidyavardhaka College of Engineering, Mysuru, India Email: nagabhushananm@gmail.com
TS07#06	**Synthesis of g-C_3N_4/MnO_2 Nanocomposite for Photodegradation of Tetracycline Hydrochloride in Water** **Yashas S R and Shivaraju H P** Department of Water and Health, Faculty of Natural Sciences, JSS Academy of

	HigherEducation and Research, Mysuru, India. Email**:** shivarajuenvi@gmail.com
TS07#07	**Preparation, Spectral Characterization and Biological Applications of Schiff Base and its Transition Metal Complexes** **Vinusha H M[a], Shiva Prasad K[b], MuneeraBegum[a], Ramith Ramu[c], Prithvi S Shirahatti[d], and M. N. Nagendra Prasad[e]** [a]Dept of Chemistry, JSS Science and Technology University, Mysuru, India. [b]Dept of studies in Chemistry, University of Mysore, Mysuru, India. [c]Division of Biotechnology and Bioinformatics, Department of Water & Health Sciences, Faculty of Life Sciences, JSS Academy of Higher Education and Research,Mysuru. [d]Dept. of Biotechnology, Teresian College, Siddhartha Nagara, Mysuru, India. [e]Dept. of Biotechnology, JSS Science and Technology University, Mysuru, India.

Program Schedule

Day # 2 – Technical Session

Theme: Microbeads and Drug delivery

Technical Session: 08

Date: 17-01-19 **Time: 11.45 – 1.45 PM** **Venue: Hall 3**

INV13	**Nanomedicine: A boon to treat some of the difficult diseases to cure** **Bharath Raja Guru** Department of Biotechnology, Manipal Institute of Technology, MAHE, Manipal
INV35	**Synthesis and Characterization of Various Antimicrobial Polymers** **Yashoda Malgar Puttaiahgowda** Department of Chemistry, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India. Email: yashoda.mp@manipal.edu
INV07	**Self-Solvated Polyethylene Glycol-Doxorubicin Nanoconjugates Formulated in Pressurized Metered-Dose Inhalers for Lung Cancer Treatment** **K.S.V. Krishna Rao** Polymer Biomaterial Design and Synthesis Laboratory, Department of Chemistry, Yogi Vemana University, Kadapa, Andhra Pradesh, India.
TS08#01	**Fabrication of polymeric blend microspheres of poly (methyl methacrylate) (PMMA) polyhydroxy butyric acid (PHB) for controlled release of valganciclovir hydrochloride** **O. Sreekanth Reddy[1], M.C.S. Subha*[1], and K. Chowdoji Rao[2]** [1]Dept of Chemistry, Sri Krishnadevaraya University, Ananthapuramu - 515003, Andhra Pradesh, India [2]Dept of Polymer Science and Technology, Sri Krishnadevaraya University, Ananthapuramu - 515003, Andhra Pradesh, India.
TS08#02	**Development and evaluation of Gemcitabine cross linked sodium alginate- Almond gum spherules for the treatment of the bladder carcinoma** **D V Gowda [1], Siree KG[1], and Siddaramaiah[2]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.

TS08#03	**Development and evaluation of Gemcitabine encapsulated sodium alginate nanoparticles for intravesical installation in treatment of the bladder carcinoma** **DV Gowda [1], Nirmala Nayak[1], and Siddaramaiah[2]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.
TS08#04	**Formulation and Evaluation of Cefpodoxime Loaded Enteric Coated Sustained Release Beads** **D V Gowda[1], C. Saikishan[1], Siddaramaiah[2], and HemalathaS[3]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S SNagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S SNagara, Mysuru, India. saikishan.kishan@gmail.com
TS08#05	**Formulation of lipid bearing pellets as a delivery system for poorly soluble drugs.** **D V Gowda[1],Gopinath N[1], Siddaramaiah[2], and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India
TS08#06	**Development and evaluation of solid self-emulsifying ibuprofen pellets** **D V Gowda[1], R.Kalaiselvi[1], Siddaramaiah[2], and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.

Program Schedule

Day # 2 – Technical Session

Theme: Oral drug delivery system

Technical Session : 09

Date: 17-01-19 **Time: 11.45 – 1.45 PM** **Venue: Hall 4**

INV30	**Engineering Bioplastic scintillators of PLA doping with new Blue emissive Thiazolidinedione derivative Fluorophores** **Balladka. K.Sarojini** [a]Departmentof Industrial Chemistry, Mangalore University, Mangalaganothri-574199, D.K. Karanataka, India.

INV51	**Advanced Polymeric Materials for 3D Printing in Health Science** **T.M.Pramod Kumar** Faculty of Pharmacy, JSS College of Pharmacy, JSS Academy of Higher Education & Researc Mysore-570 105, Karnataka, India.
TS09#01	**Formulation and evaluation of self-micro emulsifying dispersible tablets of Ibuprofen** **D V Gowda [1], Devanjali Bhattacharjee[1], and Siddaramaiah[2]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.
TS09#02	**Formulation and evaluation of orally disintegrating mini tablet (ODMT) loaded with Mefenamic acid for Patient compliance** **Chirag M, and DV Gowda** Department of Pharmaceutics, JSS College of Pharmacy, JSSAHER, SS Nagara, Mysuru, Karnataka, India.
TS09#03	**Formulation and evaluation of Electro spun amorphous solid dispersions of diclofenac sodium or dispersible tablet for Rheumatoid arthritis** **D. V. Gowda[1], Surabhi C[1], Siddaramaiah[2], and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.
TS09#04	**elopment and Evaluation of Aceclofenac and Paracetamol polymeric Nano sponge tablets for improved anti - inflammatory action** **FamnaRoohi N K[1] , Ahmed[2], and D.V Gowda[1]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSSAHER, SS Nagara, Mysuru, Karnataka, India. [2]Director at Jagdale pvt ltd, Bangalore, Karnataka, India.
TS09#05	**Development and Evaluation of orally disintegrating tablets containing Pilocarpine 2Hydroxy propyl ßcyclodextrin inclusion complex by response surface methodology** **D V Gowda [1], Jogabrata Tripathy[1],Siddaramaiah[2], Hemalatha S[3].** [1] Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.
TS09#06	**Development and evaluation of fast dispersible and slow releasing indomethacin tablets to improve patient compliance.** **D V Gowda [1], Yashas M.S[1]and Siddaramaiah[2]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education

	and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.
TS09#07	Formulation and evaluation of coconut shell oil for the Antifungal activity **Namratha S Saraf and P K Kulkarni** Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, Sri Shivarathreeshwara Nagar, Mysuru, Karnataka, India.

Program Schedule

Day # 2 – Technical Session

Theme: Characterization of materials

Technical Session : 10

Date: 17-01-19 **Time: 11.45 – 1.45 PM** **Venue: Hall 5**

INV05	**Development of Graphene Oxide Modified Alumina Thin Films for Moisture Sensing Application** **Debdulal Saha** Functional Materials and Devices Division, CSIR-Central Glass & Ceramic Research Institute, 196, Raja S.C. Mullick Road, Jadavpur, Kolkata, India. E-mail: debdulal@cgcri.res.in
INV36	**An Overview on Inorganic-Conducting Polymer Composite Materials for Advanced Applications** **T. Jeevananda** Department of Chemistry, RNS Institute of Technology Channasandra, Uttarahalli-Kengeri Main Road, Bangalore-560 098 jeevananda@gmail.com
INV44	**Phthalocyanine Functionalized Supramolecular System for an Electrochemical Sensing of Hydrogen Peroxide** **Sarvajith Malali Sudhakara,[a]Fasiulla Khan,[a] Mruthyunjayachari Chattanahalli Devendrachari,[b]Harish Makri and Nimbegondi Kotresh[c]** [a]Dept of Chemistry, Manipal Institute of Technology, MAHE, Manipal [b] Dept of Chemistry, Indian Institute of Science, Education, and Research, Pune [c] Department of Chemistry, Acharya Institute of Technology, Bangalore Email: fasiulla1976@gmail.com
TS10#01	**Two phases at the incommensurate interface of an monoatomic alloy layer Ag2Ge on Ag(111)** **Santosh Chiniwar[1], Angus Huang[1], Ting-Yu. Chen[1], Chung-Huang Lin[1], Cheng-Rong Hsing[2], Wei-Chuang Chen[1], Cheng-Maw Cheng[3], H. –T. Jeng[1,4], C. M. Wei[2], Woei Wu Pai[5,6*] and S. –J. Tang[1,3,4ξ]** [1]Department of Physics, National Tsing Hua University, Hsinchu 30013, Taiwan [2]Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei 106, Taiwan [3]National Synchrotron Radiation Research Center (NSRRC), Hsinchu 30076, Taiwan [4]Institute of Physics, Academia Sinica, Taipei 11529, Taiwan [5]Center for Condensed Matter Sciences, National Taiwan University, Taipei 106, Taiwan [6]Department of Physics, National Taiwan University, Taipei 106, Taiwan; email:

	chiniwarsp@gmail.com
TS10#02	**Crystal and Molecular Docking Studies of Biscyclohexyl Diols with Focal Adhesion Kinase Inhibitors** **K S Kiran[1], Chandan R[1], andMahaboob Pasha[2&3]** [1*]Department of Physics, School of Engineering and Technology, Jain Deemed to be University, Bangalore, India [2]*Department of Physics, Presidency University, Bangalore, Karnataka, India [3]Department of Metallurgy and Material Science, South Ural State University, Chelyabinsk, Russia, Email: **kiranxrd@gmail.com**
TS10#03	**Thermodynamic Properties of Crystalline Solids Containing Point Defects** **M.S.Karuna[1] , P.N.Ram[2], and Hiba Roshan[3]** [1]Faculty of Engineering & Technology, M.J.P. Rohilkhand University, Bareilly, Uttar Pradesh [2]Faculty of Engineering & Technology, M.J.P Rohilkhand University, Bareilly, Uttar Pradesh. [3]Department of Environmental Engineering, JSS Science and Technology University, Mysuru, Karnataka.
TS10#04	**$LiLa(WO_4)_2$ Polymorphs for Nonlinear Applications: An in-situ Neutron Diffraction Study** **Archana K. Munirathnappa[a,†], James Hester[b] and Nalini G. Sundaram[a,*]** [a]Materials Science Division, Poornaprajna Institute of Scientific Research, Bidalur, Near Devanahalli-562110, Bengaluru, Karnataka, India. [†]Manipal Academy of Higher Education, Manipal, Karnataka, India-576104 [b]Australian Nuclear Science and Technology and Organization, Locked Bag 2001, Kirrawee DC, Sydney, Australia. E-mail: nalini@poornaprajna.org and nalusundaram@gmail.com
TS10#05	**$SrTiO_3:Nd^{3+}$Nanophosphors for Colorimetric Latent Fingerprint Imaging and Physical Un-Clonable Anti-Counterfeiting Applications** **A. Sandhyarani[1,2], M.K. Kokila[2*] and H. Nagabhushana[3]** [1]Department of Physics, Govt. Science College, Bangalore,India [2]Department of Physics, Bangalore University, Bangalore,India [3]Prof. C.N.R. Rao Centre for Advanced Materials, Tumkur University, Tumkur, India. Email: drmkkokila@gmail.com
TS10#06	**Development of Austempered Ductile Iron and Property Evaluation with Addition of copper** **Anil Kumar M M and R. Suresh[2]** [1]Department of Mechanical Engg., Maharaja Institute of Technology Mysore [2]Department of Mechanical Engg., Siddaganga Institute of Technology, Tumkur; Email:anil.mm09@gmail.com

Program Schedule

Day # 2 – Technical Session

Theme: Smart Materials and Water Treatment

Technical Session: 11

Date: 17-01-19 **Time: 2.30 – 4.30PM** **Venue: Hall 1**

INV31	**Functional Nanomaterials-based Filters for Sustainable Water Treatment** **S.K. Nataraj** Professor at Centre for Nano and Material Sciences (CNMS) Jain University, Bangalore, India.
INV32	**Development of Sewage Sludge based Semi-interpenetrating Polymer Networks and their Applications in water Treatment** **Murtuza Ali Syed[a], Manal Al Hashmi[a] and S. Feroz[b]** [a]Department of Mechanical and Industrial Engineering, College of Engineering, National University of Science and Technology, Al-Hail, PC 111, Sultanate of Oman. [b]Department of Petroleum Engineering, NIMS University, Jaipur, Rajasthan, India. E-mail: smurtuzaali@gmail.com, syedmurtuza@nu.edu.om
INV-68	**Phosphine Oxide based Molecules and Materials: Role of substituents on Coordination Behaviour and Extraction Ability of Selected Lanthanides and Actinides** **Akella Sivaramakrishna** Department of Chemistry, School of Advanced Sciences, VIT-Vellore, TN, India Email: asrkvit@gmail.com
TS11#01	**Development of Antibacterial Properties of 100% Polyester Woven Fabrics By Admixture of Polyester-Silver Nanocomposite Fibres** **Prakash Khude[1&2], Abhijit Majumdar[2] and Bhupendra Singh Butola[2]** [1]Department of Textile Technology, MLV Textile & Engg., College, Bhilwara, Rajasthan, India [2]Department of Textile Technology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India, Email: khude009@gmail.com
TS11#02	**Preparation of Polycaprolactone /Polyethylene Glycol (PCL/PEG) Composite Nanofibers by Electrospinning for Biomedical Applications** **Sowmya B.[a,b], Athira John[a] and P.K. Panda[a,b]** [a]Materials Science Division, CSIR – National Aerospace Laboratories, Old Airport Road, Kodihalli, Bengaluru, India [b]Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, India, Email:pkpanda@nal.res.in
TS11#03	**Efficient Removal of Heavy Metal Ions from Waste Water Using Gum Ghatti – Graft – Poly(4-Acryloylmorpholine) Hydrogel Incorporated with Magnetite nanoparticles** **Prajwal Kulal and Vishalakshi B.** Department of Post-Graduate Studies & Research in Chemistry, Mangalore University, Mangalagangothri-574199 (D.K.), Email: vishalakshi2009@yahoo.com, prajwal92kulal@gmail.com
TS11#04	**Toxic Weed Derived Ultrahigh Surface Area Functional Carbon for High Performance Supercapacitor and Facile Removal of Organic Pollutants from Water** **Kanakaraj Aruchamy[a], Dibyendu Mondal[a], and Sanna Kotrappanavar Nataraj[a,b]** [a]Sustainable Energy Materials and Processes Research group, Centre for Nano & Material Sciences, Jain University, Jain Global Campus, Bangalore 562112, India. [b]IMDEA Water Institute, Avenida Punto Com, 2. Parque Científico Tecnológico de la Universidad de Alcalá. Alcalá de Henares. 28805 MADRID. Email: sk.nataraj@jainuniversity.ac.in; m.dibyendu@jainuniversity.ac.in
TS11#05	**Nanotechnology Enabled Smart Fabrics: Development and Performance Evaluation**

	Ashajyothi M[1], Mohammed Ismail[1], Vinutha P[1,2], K M Subbaiah[1], H N Divakar[1], Sachhidananda S[3], Siddaramaiah[3], and Nithin Kundachira Subramani[4] [1]Department of Industrial Production and Engineering, The National Institute of Engineering Mysuru, India. [2]Department of Technical Education, Government Polytechnic Mirle, K R Nagar, Mysuru, India. [3]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysuru, India. [4]Department of Chemistry, The National Institute of Engineering, Mysuru, India. Email: mdismail@nie.c.in, nithinks@nie.ac.in
TS11#06	**Synthetic and Biomaterials Membrane Interfaces for Membrane Separation Applications** **Nidhi Maalige.R[a], Dibyendu Mondal[a] and Sanna Kotrppanavar Nataraj[a,b]** [a]Sustainable Energy Materials and Processes Lab, Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Kanakapura, Ramanagara, Bangalore 562112, India [b]IMDEA Water Institute, Avenida Punto Com, 2. Parque Cientıfco Tecnoĺogico de la, Universidad de Alcala, Alcal´a de Henares, 28805 Madrid, Spain Email: m.dibyendu@jainuniversity.ac.in; sk.nataraj@jainuniversity.ac.in
TS11#07	**Development and Performance Evaluation of Thermally Adaptive Smart Clothing** **Vinutha P[1,2,] H N Divakar,[1] Asha Jyothi M[1], K M Subbaiah[1], Mohammed Ismail[1], Sachhidananda S[3], Siddaramaiah[3] and Nithin Kundachira Subramani[4]** [1]Department of Industrial Production and Engineering, The National Institute of Engineering, Mysuru, India. [2]Department of Technical Education, Government Polytechnic Mirle, K R Nagar, Mysuru, India. [3]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysuru, India.
TS11#08	**Investigation of Thermo-mechanical properties of heat treated friction welded superelastic shape memory Nitinol alloy** **Shashikala A[a] and Muniraju M[b]** [a]Department of Mechanical Engineering, Acharya Institute of Technology, Bengaluru [b] Department of Mechanical Engineering, Government Engineering College Email: shashikala023@gmail.com

Program Schedule

Day # 2 – Technical Session

Theme: Smart Materials

Technical Session: 12

Date: 17-01-19 **Time: 2.30 -4.30PM** **Venue: Hall 2**

INV-66	**Synthesis of Different Types of Carbon Nanostructures for Application in Electrochemical Energy Storage Devices** **R Sneha and Kuldeep Rana** Electrical Appliances Technology Division, Central Power Research Institute, Bengaluru.

	Email: kuldeeprana@cpri.in
INV24	**Physical and Thermal Properties of ECR-glass Fiber Reinforced Hybrid Epoxy Nanocomposites** **Rashmi[a] and Poornima[b]** [a]Department of Electrical and Electronics Engineering, Siddaganga Institute of Technology, Tumakuru. [b]V.T.U. Reasearch center, Dept. of EEE, Siddaganga Institute of Technology, India Department of Electrical and Electronics Engineering, Siddaganga Institute of Technology, Tumakuru. Email:rash_mysore@yahoo.com
INV25	**Comparative Studies on Electrical, Mechanical and Thermal Behavior of Mixed Nano Structured Metal Oxides Decorated Polyvinyl Alcohol and Polyvinyl Alcohol/Polyvinyl Pyrrolidone Blend Based Nanocomposites** **H.N.Chandrakala[1], Shivakumaraiah[2] and Siddaramaiah[3]** [1]Department of Chemistry, Kalpataru Institute of Technology, Tiptur – 572 201 [2]Department of Chemistry, Siddaganga Institute of Technology, Tumkur-572 103 [3]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysore - 570 006, India
TS12#01	**Synthesis of Nanostructured Quaternary Metal Oxide/Carbon Composites as Electrode Material for High Performance Supercapacitors** **Anita Samage[a], Juno Rose A[a], Kanakaraj Aruchamy[a], and S. K. Nataraj[a,b]** [a]Sustainable Energy Materials and Processes Research Group, Centre for Nano & Material Science, Jain Global Campus, Jain University, Bangalore 562112, India. [b]IMDEA Water Institute, Avenida PuntoCom, 2. Pargue Cientfico Tecnologico de la Universidad de Alcal, Alcala de Henare, 28805, Madrid, Spain. E-mail: sk.nataraj@jainuniversity.ac.in
TS12#02	**PEO-$LiClO_4$/CoO Composite Polymer Electrolytes for Lithium Batteries** **J. Gurusiddappa[1,] W. Madhuri[2], K. Priya Dasan[3], R. Padma Suvarna[4]** [1]Department of Physics, Srinivasa Ramanujan Institute of Technology, Anantapur, AndhraPradesh, 515701, India [2]Department of Physics, CCG, SAS, VIT University, Vellore, 634 014, TN, India. [3]Department of Chemistry, SAS, VIT University, Vellore 632 014, TN, India [4]Department of Physics, JNTU College of Engineering, Anantapuram, Andhra Pradesh.
TS12#03	**PEDOT Wearable Thermoelectric Composites – A review** **Prajith, P[a]., Balasubramanian, K[a], and Roopa, S.** [a]Defence Institute of Advanced Technology, (DU), Girinagar (PO), Pune-411025 *Department of Polymer Science & Technology, JSS Science & Technology University, Mysuru. Email: roopasm2000@sjce.ac.in
TS12#04	**Synergistic impact of PC contents on optical response, electrical and thermal performance of PVA-OH/$LiClO_4$ impregnated La_2CuO_4 nanofillers**. **Murad Q.A. Al-Gunaid1[2&3], Adel M.N. Saeed[1,2],Somesh T.E[1,2], Gayitri H.M[1], Fares H. Al-Ostoot[5] and Siddaramaiah[1]** [1]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysuru, India. [2]JSS Research Foundation, JSSTI Campus, Mysuru, India. [3]Department of Chemistry, Faculty of Education, Thamar University, Dhamar, Yemen.

	[5]Department of Chemistry, Yuvaraja's College, University of Mysore, Mysuru, Email:morad.jounid11@gmail.com, siddaramaiah@gmail.com
TS12#05	**Strategic Preparation of Hybrid Bimetallic Metal Oxide Decorated Graphene Oxide Incorporated Polymer Nanocomposites for Capacitor Application** **T.E. Somesh,[1&2] Joong Hee Lee[3]and Siddaramaiah[1]** [1]Department of Polymer Science & Technology, Sri Jayachamarajendra College of Engineering, Mysuru, India [2]JSS Research Foundation, University of Mysore, Mysuru, India [3]Advanced Materials Institute for BIN Convergence Technology (BK21 Plus Global Program), Department of BIN Convergence Technology, Jeonbuk National University, Republic of Korea. Email: siddaramaiah@gmail.com
TS12#06	**Hetero-structured strontium doped thorium oxide hybrid nanoparticles embedded highly flexible poly (vinyl alcohol) composite films for UVA Protection** **P. Mahadeva Prasad[1,3] , B.S. Madhukar[2], R. Gopalkrishne Urs[3] and Siddaramaiah[4]** [1]Department of Physics, Sri Jayachamarajendra College of Engineering, Mysore, India [2]Department of Chemistry, Sri Jayachamarajendra College of Engineering, Mysore,India [3]Department of Physics, National Institute of Engineering, Mysore .[4]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysore, India
TS12#07	**Interactive Effect of Nano-$CaCdAl_2O_5$ Contents on Opto-Electrical Constants of PVA-OH Nanocomposites** **Gayitri H. M[a,b], Murad Q.A Al-Gunaid[c,d], Siddaramaiah[c] and Gnana Prakash A.P[a]** [a]Department of Studies in Physics, University of Mysore, Manasagangotri, Mysore, [b]Department of Electronics and Communication Engineering, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysore – 570 006.[c]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysore, India; [d]Department of Chemistry, Faculty of Education, Thamar University, Dhamar, Yemen.

Program Schedule

Day # 2 – Technical Session

Theme: Catalyst and Energy

Technical Session: 13

Date: 17-01-19 **Time: 2.30 – 4.30 PM** **Venue: Hall 3**

INV71	**Effect of Tear Components on the Optical Properties of Contact Lens Materials** **Dr. Deepa Urs M.V.** Department of Physics, NIE, Mysuru
INV15	**Visible Light Active Hybrid and Composite Nanostructures for the Photocatalytic Degradation of Textile Dyes** **Sivakumar. P** Department of Chemistry, Arignar Anna Government Arts College, Namakkal, Tamilnadu, Email: shivagobi@gmail.com
INV-61	**Mechanical Properties Of Cadmium Sulphide Thin Films**

	M. Anusuya Indra Ganesan Group of Institutions, Madurai Main Road, Manikandam, Trichy, Tamilnadu – 620012. Email: sarananu94@gmail.com
TS13#01	**Synthesis, Characterization and Catalytic Activity of Mg Bridged AC** **A.Amala Jeya Ranchani[1], V.Parthasarathy[1] and R.Anbarasan[2]** [1]Dept of Physics, Hindustan Institute of Technology and Science, Padur, Chennai, India. [2]Dept of Chemical Engineering, National Taiwan university, Taipei, 10617, Taiwan. Email: anbu_may3@yahoo.co.in
TS13#02	**Synthesis, Spectral Analysis, and Catalytic Activity of Poly (Aniline-Co-Congored)–Metal Oxide Nanocomposites** **R. Baskaran[1] and R. Anbarasan[2]** [1]Department of Polymer Technology, Kamaraj College of Engineering and Technology, K.Vellakulam, Madurai 626001 Tamilnadu, India [2]Department of Chemical Engineering, National Taiwan University, Taipei 10617 Taiwan
TS13#03	**Efficient Photoelectrochemical Hydrogen Production Using MoS2/TiO2 Heterostructures** **Abdo Hezam[a], K. Namratha[a], Q.A. Drmosh[b] and K. Byrappa[a]** [a]Centre for Materials Science and Technology, University of Mysore, Vijana Bhavana, P.B.No.21, Manasagangothiri, Mysuru, India. [b]Physics Department and Center of Research Excellence in Nanotechnology, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia. Email: abdo.hezam13@gmail.com
TS13#04	**Effect of Indium Doping on Cerium Oxide Nanoparticle Characteristics Prepared by Solution Combustion Synthesis** **Brunda. M, Vidhyashree. S, and Madhukar. B.S** PG Department of Chemistry, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru-570 006
TS13#05	**"CLEAR by PM"** **(Changing Lives by Eradicating Antibiotic Resistance of MRSA by Piperazine Metal complexes)** **H. S. Nagendra Prasad[a], L. Mallesha [b], and P. Mallu [a]** [a]Department of Chemistry, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India [b]PG Dept of Chemistry, JSS College of Arts, Commerce and Science, Mysuru, India E-mail: nprasadjss@gmail.com
TS13#06	**Manipulation of Polymer Matrix with High Photoluminescent $CsPbX_3$ (X= Cl, Br and I)** **Sarath, K[1] Madhukar, B.S,[1] and G. Sahaya Dennish Babu[2]** [1]PG Department of Chemistry, Sri Jayachamarajendra of Engineering, JSS Science and Technology University, Mysuru. Karnataka [2]College of Engineering and Technology, Puliyur - CF, Karur, Tamil Nadu.

Program Schedule

Day # 2 – Technical Session

Theme: Applications of Rubber Products

Technical Session: 14

Date: 17-01-19 **Time: 2.30 – 4.30 PM** **Venue: Hall 4**

INV18	**Preparation of Stable Chemical Dispersions for Latex Technology: Optimization of Process Parameters** **Anand K** Department of Basic Sciences, Amal Jyothi College of Engineering, Kanjirappally 686 518, Kerala, India. E-mail: anand.rrii@gmail.com
INV47	**Prediction of Thermodynamic Properties of Elastomer Using Molecular Dynamics Simulation** **Pragati Sharma, Prasenjit Ghosh and Rabindra Muhopadhyay** Hari Shankar Singhania Elastomer & Tyre Research Institute 437, Hebbal Industrial Area, Mysuru-570016, Karnataka, India
INV21	**Recent Advances in Internet of Things (IoT) for Precision Farming** **Devanand Maski*[1], Vinayaka N[2] and Prakash K.V[1]** [1]Department of Renewable Energy Engineering, [2]Department of Farm Machinery and Power Engineering; College of Agricultural Engineering, Raichur; University of Agricultural Sciences – Raichur, India Email:dmaski@gmail.com
TS14#01	**Highly Air Impermeable Rubber Nanocomposites for Tire Applications** **Aswathy T R[a],Pranab Dey[b], Sujith Nair[b], and Kinsuk Naskar[a]*** [a]Rubber Technology Centre, Indian Institute of Technology, Kharagpur, West Bengal. [b]CEAT Limited, Vadodara, Gujarat, India-389350. Email: naskark73@gmail.com
TS14#02	**Evaluation of Shape Memory Effect and Mechanical Properties of PEG-CNT Shape Memory Polymers** **Ranganatha Swamy MK[1], U S Mallikarjun[2], V Udayakumar[3]** [1]Department of Mechanical Engineering, School of Engineering and Technology, Jain University, Bangalore-562112, India, e-mail: ranganath6686@gmail.com [2]Department of Mechanical Engineering, Siddaganga Institute of Technology, Tumkur, India-572103, e-mail: usm@sit.ac.in [3]Department of Chemistry, Siddaganga Institute of Technology, Tumkur, India
TS14#03	**Design and Development of Nitrosamine free Compound for Eco Friendly Automotive Tubes** **Mahendra Kumar, S[1]., Roopa, S[1]., Shivabasapp. K. L[2] and Siddaramaiah[1]** [1]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru 570 006, India [2]Mysore polymers and rubber products Ltd., Mysuru. Email: roopasm2000@sjce.ac.in
TS14#04	**Role of Fibers and Fillers on Density and Wettability of Thermoplastic Copolyester Elastomer Composites** **Hemanth R[a*], Suresha B[b], and Sekar M[c]** [a*]Department of Mechanical Engineering, NIE Institute of Technology, Mysuru – 570 018, affiliated to Visveswaraya Technological University, Belagavi, Karnataka, India [b]Department of Mechanical Engineering, The National Institute of Engineering, Mysuru – 570 008, affiliated to Visveswaraya Technological University, Belagavi, India

	[c]Department of Mechanical Engineering, AAA College of Engineering and Technology, Sivakasi – 626 123, Tamilnadu, India, Email: hemanth@nieit.ac.in
TS14#05	**Comparison of eco friendly oils with conventional process oils in the rubber compound - A review** **Neelambika A., Chandresh M. P., Roopa S and Siddaramaiah*** Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering,JSS Science and Technology University, Mysuru, Email: **sr63@sjce.ac.in**

Program Schedule

Day # 2 – Technical Session

Theme: Material Science and Energy

Technical Session: 15

Date: 17-01-19 **Time: 2.30 – 4.30 PM** **Venue: Hall 5**

INV04	Mussel-inspired Hydrogels as Versatile Tools for Tissue Engineering Applications **Kummara Madhusudana Rao** School of Chemical Engineering, Yeungnam University, 280-Daehak-Ro, Gyeongsan 712-749, South Korea. Email: **msraochem@gmail.com**, Ph: +8210-3294-6779Fax: +8253-810-4686.
INV-02	**Surface Engineering of Few Layer 2D Mxene for Super Performance Electromagnetic Interference Shielding Applications** **Krishnamoorthy Rajavel[a], PengliZhu[a], Rong Sun[a] and ChingpingWong[b]** [a]Shenzhen Institute of Advanced Electronic Materials, Shenzhen Fundamental Research Institutions, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, 518055, China. [b]School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332, United States.
INV19	**Flame Retardant characteristics and Micromechanical modelling of Epoxy Composites Reinforced with Bentonite Clay** **Mahadeva Raju G. K.[a, b], G. M. Madhu[c], Ameen Khan M.[c,d], S V Satayanarayana[a]** [a]Department of Chemical Engineering, Jawaharlal Nehru Technological University, Anantapuram 515002, AP, India [b]Department of Chemical Engineering, Dayananda Sagar College of Engineering, Bangalore 560078, Karnataka, India [c]Department of Chemical Engineering, M S Ramaiah Institute of Technology, Bangalore 560054, Karnataka India [d]The Energy and Resources Institute (TERI), SRC, Bangalore 560 071, India
TS15#01	**Electrodeposited MnO_2@CuS nanowires@Ni-mesh Network Electrode for Flexible Thin Film Supercapacitor** **Soram Bobby Singh[a], Dai Jiu Yi[a], Tolendra Kshetri[a], Thangjam Ibomcha Singh[a], Nam Hoon Kim[a,b]*, Joong Hee Lee[a,b]** [a]Applied Materials Institute for BIN Convergence Technology, Department of BIN Convergence Technology,Jeonbuk National University, Jeonju, Jeonbuk, 54896, Republic of Korea. [b]Regional Leading Research Center for Nanocarbon-based Energy Materials and

	Application Technology,Jeonbuk National University, Jeonju, Jeonbuk, Republic of Korea. Email: jhl@jbnu.ac.kr, **nhk@jbnu.ac.kr**
TS15#02	**Sputter Deposition and Evolution of Bismuth Vanadate from Bismuth Oxide-Vanadium Oxide Physically Mixtured Powder Target** **V. Madhavi[a], Habibuddin Shaik[b], K. Naveen Kumar[b] and Praveen C Ramamurthy[a]** [a]Materials Engineering, Indian Institute of Science, Bangalore. [b]Center for Nano Materils and MEMS, Nitte Meenakshi Institute of Technology, Bangalore, Email: onegroupb203@gmail.com
TS15#03	**Synthesis and Mechanical Properties of Al7075-SiC Metal Matrix Composite with the Modification Heat Treatment Processes** **Suraj Kumar Gupta, and Mukesh Tilwani** *Mechanical Engineering Department, M.L.V. Textile & Engineering College, Bhilwara, Rajasthan, India. Email:suraj7635@gmail.com
TS15#04	**Crystal Structure Analysis of (Chloroflurophenyl)-(Dichlorothiophenyl) Propen-One** **T. N. Sanjeeva Murthy[a] , S. Naveen,[b] C. S. Chidan Kumar,[c] M. K. Veeraiah[d] and B. P. Siddaraju[e]** [a]Dept of Chemistry, Sri Siddhartha Academy of Higher Education, Tumkur, Karnataka, [b]Department of Physics, School of Engineering and Technology, Jain University, Bangalore, India, [c]Department of Engineering Chemistry, Vidya Vikas Institute of Engineering & TechnologyAlanahally, Mysuru, Karnataka, India [d]Department of Chemistry, Sri Siddhartha Institute of Technology, Tumkur. [e]Department of Chemistry, Cauvery Institute of Technology, Mandya, Karnataka, India.
TS15#05	**Crystal Structure and Hirshfeld Surface Analysis of (nitrophenyl)-oxoethyl chlorobenzoate** **S.N.Sheshadri[a] , M.K.Veeraiah[b], C S Chidan Kumar[c] and B P Siddaraju[d]** [a]Dept of Chemistry,GSSS Institute of Engineering and Technology for Women, Mysuru. [b]Department of Chemistry, Sri Siddhartha Institute of Technology, Tumkur. [c]Dept of Engineering Chemistry, Vidya Vikas Institute of Engg.& Technology, Mysuru [d]Department of Chemistry, Cauvery Institute of Technology, Mandya.
TS15#06	**Improved Visible Photocatalytic Activity of Nickel Doped Zinc Oxide Designed for Azo dyes Degradation** **Shruthi S[ab], Nithin K. S[d], Sachhidananda S[c], Somesh T. E[a], Joong Hee Lee[e] and Siddaramaiah[ac]** [a]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysore, India [b]Department of Chemistry, Mysuru Royal Institute of Technology, Mysore [c]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysuru, India. [d]Department of Chemistry, The National Institute of Engineering, Mysuru, India. [e]Advanced Materials Institute for BIN Convergence Technology, Department of BIN Convergence Technology, Jeonbuk National University, Republic of Korea.

Theme: Nanotechnology (Energy)
Technical Session: 16
Date: 17-01-19 **Time: 4.45 – 6.30PM** **Venue: Hall 1**

INV45	**Testing Concept as A Screening Method for Industrial Applications on the Translatory Oscillation Tribometer (SRV) against FZG Instrument** **Channabasappa B H and Satheesh Kumar M N** Tribology, Klüber Lubrication India Pvt. Ltd, Mysore, Email: **channabasappa.hudedagaddi@in.klueber.com**
INV46	**Tuning and Turning of Light Sensitive Molecules for Innovative Applications** **Gurumurthy Hegde** Centre for Nano-materials and Displays, BMS College of Engineering Basavanagudi, Bengaluru
TS16#01	**2D-MOFs Derived Iron-doped Nickel Phosphides Assembled Copper Sulfide Nanowires for Enhanced Water Splitting Performance** **Duy Thanh Tran[a], Hien Van Hoa[a], Nam Hoon Kim[a,b] and Joong Hee Lee[a,b]** [a]Applied Materials Institute for BIN Convergence Technology, Department of BIN Convergence Technology, Jeonbuk National University, Jeonju, Jeonbuk, Republic of Korea. [b]Regional Leading Research Center for Nanocarbon-based Energy Materials and Application Technology, Jeonbuk National University, Jeonju, Jeonbuk, Republic of Korea. Email: jhl@jbnu.ac.krandnhk@jbnu.ac.kr
TS16#02	**Fabrication of Nickel Sulfide / Graphene Oxide Modified Glassy Carbon Electrode Sensor for the Electrochemical Determination of Urea: A Non-Enzymatic Approach** **T.S. Sunil Kumar Naik and Praveen C. Ramamurthy** Department of Materials Engineering, Indian Institute of Science, Bangalore, India Email:onegroupb203@gmail.com
TS16#03	**The Studies on Helium Gas in South Ganga Basin, Sagar Division, M.P. India** **Arun K. Shandilya, Anupam Shandilya, and P. L. Chandrakar** Dept. of Applied Geology, Dr. HSG University, Sagar, M.P.
TS16#04	**Development of Metal Oxide Nanoparticles and Multiwalled Carbon Nanotube Modified Carbon Paste Electrochemical Sensor for Moxifloxacin** **Siddegowda K S[a], Mahesh B[a], ChamarajuN A[a],Roopashree B[a] and Kumara Swamy N[b]** [a]Dept of Chemistry, JSS Academy of Technical Education, Dr. Vishnuvardhan Road, Bengaluru [a]Department of Chemistry, Sri Jayachamarajendra college of Engineering, JSS Science and Technological University, Manasagangotri, Mysuru-570006, India E-mail: maheshb22@gmail.com
TS16#05	**A Sensor Based on Copper Doped Graphitic Carbon Nitride for the Electroanalysis of Catechol** **Sanjay B. P[a], Sandeep S[a], and Kumara swamy N[a]** [a]Department of Chemistry Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysore, India Sanjaypgowda43@gmail.com, Sandeep12chem@gmail.com, kumaryagati@gmail.com
TS16#06	**The Frontier Battery Technology : Graphene Battery**

	Dhananjay[a], M. R. Abhilash[b], G. Akshatha[a,b], and S. Srikantaswamy[a,b] [a]Centre for Materials Science and Technology, Vijnana Bhavan, University of Mysore, Manasagangotri, Mysore 570006, India [b]Department of Studies in Environmental Science, University of Mysore, Manasagangotri, Mysore 570006, India, (**srikantas@hotmail.com**)
TS16#07	**Characterization and Tribological Study of Aluminium 2014 Alloy** **Mukesh Tilwani[1] and Suraj Kumar Gupta** Mechanical Engineering Department, M.L.V. Textile & Engineering College, Bhilwara, Rajasthan, India. Email – Mukesh.tilwani2004@gmai.com
TS16#08	**Detail Study on Effect of Shear Stability Behavior of Castor and Pogamia Bio Oils on Metals Grinding Process** **M.Rajasekhar, M.N.Satheesh Kumar and Siddaramaiah** Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysore, India

Program Schedule

Day # 2 – Technical Session

Theme: Nano carriers

Technical Session: 17

Date: 17-01-19 **Time: 4.45 – 6.30PM** **Venue: Hall 2**

INV29	**Protein Nanofibers as Diabetic Wound Dressings** **Asha Srinivasan** Division of Nanoscience and Technology, Department of Water & Health – Faculty of Life Science. JSS Academy of Higher Education & Research, Mysore.
INV-71	**"GREEN INTIATIVE" at JK Tyre & Industries Ltd (JKTIL), Vikrant Tyre Plant, Mysuru** **Eswara Rao V** J K Tyre & Industries Ltd, Mysuru-570016
INV53	**Generation of Nanofibers from Synthetic Plastic-Mimetic Polypeptidesand Functionally Similar Polymers for Biomedical Applications** **Mahesh B.** Department of Chemistry, JSS Academy of Technical Education, Dr.Vishnuvardhan Road, Bengaluru-560060. E-mail: maheshb22@gmail.com
TS17#01	**Nano carriers for Diagnosis and Targeting of Breast Cancer** **Nithish Shekar[1], D. Vishakante Gowda[1], and Vikas Jain[1]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, Sri Shivarathreeshwara Nagar, Mysuru, Karnataka, India
TS17#02	**Formulation and evaluation of Gemcitabine loaded nanoemulsion for Pulmonary delivery** **D V Gowda [1], Merryl D'silva[1], Siddaramaiah[2], and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru-, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science

	and Technology University, Mysuru-, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru-, Karnataka, India.
TS17#03	**Development and evaluation of solid lipid nanoparticles loaded with gemcitabine for pulmonary delivery** **D V Gowda[1], Rachna M Kumar[1], Siddaramaiah[2]and Hemalath**a S[3]. [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.
TS17#04	**Formulation and evaluation of bromfenac sodium nanomicelles loaded in insitu gel for eye inflammation.** **Guru Prasad B M, and D.V. Gowda** [1]Department of pharmaceutics, JSS College of pharmacy, JSSAHER, SS Nagara, Mysuru, Karnataka, India.
TS17#05	**Non-Viral Nanocarriers for siRNA delivery in Breast Cancer.** **D Vishakante Gowda, Vikas Jain, and Arun Kumar Vadikari** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, Sri Shivarathreeshwara Nagar, Mysuru, Karnataka, India.
TS17#06	**Nanostructure lipid carriers in the treatment of metastatic melanoma** **Pooja Mallya, Vikas Jain, and DV Gowda** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, SS Nagara, Mysuru, Karnataka, India.

Program Schedule

Day # 2 – Technical Session

Theme: Material Science and Technology

Technical Session: 18

Date: 17-01-19 **Time: 4.45 – 6.30PM** **Venue: Hall 3**

INV34	**Development of Novel Eco-friendly Catalyst Materials for Conversion of Biomass into Fuels and Chemicals** **Anand B Halgeri** Poornarpajna Institute of Scientific Research, Bangalore, Email: abhalgeri@gmail.com
INV60	**Development of Novel Polymeric Systems for Advanced Applications Using Reactive Rotational Molding and Melt Extrusion** **B J Rashmi and Prashantha Kalappa** University of Lille/ IMT, Lille-Douai, France 59500
INV57	**Mathematical Modeling for the Sliding Wear Characteristics of Glass-Epoxy Composites used for Coal Handling Parts in Thermal Power Plants** **Bharathi, V**

	Dept of Mechanical Engg, BMS College of Engg, Bangalore
TS18#01	**Hierarchical Nanoscale Structured Anti-Reflective Coatings on Silicon Solar Cells for Efficient Photon Management** **Varun Adiga[a], Jagdish A.K.[b], D Roy Mahapatra[c], Gopalkrishna Hegde[d], and Praveen C Ramamurthy*** [a]Interdisciplinary Centre for Energy Research, IISc, Bengaluru [b]Centre for Nano Science and Engineering, IISc, Bengaluru [c]Aerospace Engineering, IISc, Bengaluru [d]Centre for Nano Science and Engineering, IISc, Bengaluru *Department of Materials Engineering, IISc, Bengaluru. Email: groupb203@gmail.com
TS18#02	**Ultra Low Dielectric Constant Aerogels of Syndiotactic Polystyrene with Nanoporous Channels (E) and Cavities (Δ)** **Vipin G. Krishnan[a,b], Angel Mary Joseph[a,b],K.P. Surendran[a,b], E. Bhoje Gowd[a,b,]** [a]Materials Science and Technology Division, CSIR-National Institute for Interdisciplinary, Science and Technology, Thiruvananthapuram-695019, Kerala, India [b]Academy of Scientific and Innovative Research (AcSIR), Ghaziabad-201 002, India Email: bhojegowd@niist.res.in
TS18#03	**Optimization of Turning Parameter for Roundness Investigation using V-Block Method** **S Raghu, T G Mamatha[a] , M Vishnoia, Moon[a] G[b], andR Sharma[b]** [a]Mechanical Engineering department, JSS Academy of Technical education, Noida. [b]CSIR-National Physical Laboratory, New Delhi, India *Mechanical Department, JSS Academy of Technical Education, Noida, India. Email: raghu4gk@gmail.com
TS18#04	**The Effect of PTFE Content on the Physico-Mechanical, Drilling and Machinability behaviors of Polyamide 6/glass Fibre/PTFE** **Kameshwari Devi S.H., Daniyal Shaistha and Siddaramaiah** Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysuru, India Email:shkdevi@sjce.ac.in
TS18#05	**Optimization of Molar Ratio (PbI_2/CH_3NH_3I) for Perovskite Thin Films for High Quality Crystallinity and Better Interdiffusion** **Siddharth Joshi[1], Z. Inamul Hasan[2] and K.M. Subbaya[2]** [1]Centre for Nanotechnology, The National Institute of Engineering, Mysore, Karnataka. [2]Department of Industrial and Production Engineering, The National Institute of Engineering, Mysore, India.
TS18#06	**Plastic Waste Reuse as Constructions Materials** **Apoorva C, Rakshitha HD, Rakshitha NY, Srivatsa N, Pushpa Tuppad** Dept. of Environmental Engg, Sri Jayachamarajendra College of Engineering, Mysuru E-mail: ptuppad@gmail.com
TS18#07	**Anthocyanin Based Edible Ball: A Source of Antioxidant** **Sudharani[a], Nandini P. Shetty[b], Prasanth V[c], Rajeshwar S. Matche** [a,c]Department of Food Packaging Technology, CSIR - Central Food Technological Research Institute, Mysore, Karnataka, India [b]Department Plant Cell Biotechnology, CSIR - Central Food Technological Research

	Institute, Mysore, Karnataka, Email: rsmatche@cftri.res.in
TS18#08	**Drought Index Computation using Standardized Precipitation Index (SPI) for Karnataka** **Srilakshmi T N and Pushpa Tuppad** Department of Environmental Engineering, SJCE, Mysuru, India

Program Schedule
Day # 2 – Technical Session

Theme: Civil Engineering
Technical Session: 19
Date: 17-01-19 **Time: 4.45 – 6.30PM** **Venue: Hall 4**

INV41	**Prediction of Mechanical Properties of Natural Fiber Reinforced Polyester Composites** **B S Keerthi Gowda** Structural Engineering, CPGS-VTU Mysuru.
INV-58	**Advanced Materials in Water and Wastewater Treatment** **[1]B Manoj Kumar, [2]Vishishtta Nagaraj and [3]Meghana M S** [1]Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore, Karnataka, India; Email: bmanoj@sjce.ac.in [2]Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore, Karnataka, India; Email: vishunagaraj@gmail.com [3]Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore, India. Email: meghanamsm.1995@gmail.com
TS19#01	**Study on Compressive Strength Attributes of Cement Concrete added with Metakaolin and Marble Powder** **B S Keerthi Gowda and M S Kruthica** Structural Engineering, CPGS-Visvesvaraya Technological University, Mysuru. E mail: keerthiresearch@yahoo.com
TS19#02	**Dynamic Increase Factor for Steel Building Against Progressive Collapse** **M B Sreenivasa, C Sunil Kumar and B S Keerthi Gowda** Dept. of Structural Engineering, CPGS-Visvesvaraya Technological University, Mysuru. E-mail: keerthiresearch@yahoo.com
TS19#03	**Hydrologic Simulation of Upper Cauvery Basin** **Deepthi B.P[1], Pushpa Tuppad[2] and K.S Lokesh[2]** [1]Dept of Civil Engineering, DSATM, Bengaluru, India [2]Dept of Environmental Engineering, JSS S&TU, Mysuru, India
TS19#04	**Seismic analysis of circular water tanks resting on ground** **Vikram M B and G.P.Chandradhara** Dept of Civil Engg., JSS Science and Technology University, Mysuru. Email: **vikrampalegar@gmail.com**

TS19#05	**Regularity Index of Step Back and Step Back Set Back Buildings** ***Thejaswini R.M[1]., L. Govindaraju[1] and V. Devaraj[2]** [1]Dept. of Civil Engineering, UVCE, Bangalore University, Bangalore [2]Department of Civil Engineering, Dr. AIT, Bangalore
TS19#06	**Timber and Bamboo as A Building Material and Stability Analysis of a Chariot (Framed Cantilever Structure)** **Deekshith Kumar S N[a], Dr. Kiran T[a], Dr. Shukla SR[b], Prof. L Govindaraju[4]** [a]Dept. Of Civil Engineering, UVCE, BU [b]IWST, ICFRE, Bengaluru [d]Earthquake Engineering Department, UVCE, BU. Email: deekshithkumar.07@gmail.com
TS19#07	**Review of Standard Plans issued by Ministry of Surface Transport for Minor T-Beam Bridges as per the New Codal provisions** **Chandradhara G. P[a], Shaik Kabeer Ahmed[*]** [a]Dept. of Civil Engg., JSS Sci. and Tech. University, Mysuru, India. [b]Dept. of Civil Engg, NMAM Institute of Technology, Nitte, India. Email: kabeer092@gmail.com
TS19#08	**Study on Alternative Materials for Sand to be used in Cement Mortar** **Pramukh Ganapathy C[1&2], G. Sarangapani[1], and H.S Prasanna[1]** [1]Dept. of Civil Engineering, The National Institute of Engineering, Mysuru. [2]Dept. of Civil Engineering, Coorg Institute of Technology, Kodagu – 571216.

Program Schedule

Day # 2 – Technical Session

Theme: Transdermal drug delivery system

Technical Session: 20

Date: 17-01-19 **Time: 4.45 – 6.30 PM** **Venue: Hall 5**

INV-63	**Nano-engineered smart dendrimers for biomedical application in drug delivery system** **D V Gowda** Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru-570015, Karnataka, India.
INV17	**Quantification and Visualization of Cartilage and Menisci of Knee Joint for Early Detection of Osteoarthritis and Menisci Tears** **Mallikarjunaswamy M.S**., Department Electronics & Instrumentation, JSS Science and Technology University, Mysuru-570006. Email: msm@sjce.ac.in
TS20#01	**Development and evaluation of orodispersible film loaded with Ibuprofen nanoparticles** **D V Gowda [1], Vishal B Rawal[1], Siddaramaiah[2],** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.

TS20#02	**Development and evaluation of bio nanocomposite films for antifungal activity** **D V Gowda[1], Prasad Vinay Rao[1], Siddaramaiah[2],** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.
TS20#03	**Formulation and evaluation of Polymeric Buccal film loaded with Ibuprofen for Buccal delivery** **D V Gowda [1], Maithri Shanbhogue H[1], Siddaramaiah[2],** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.
TS20#04	**Characterization and formulation of transdermal delivery system of piroxicam** **D V Gowda [1], Rohini Bhattacharya[1], Siddaramaiah[2]and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.
TS20#05	**Formulate and evaluate Clotrimazole (CZ) ocuserts of 2β beta-cyclodextrin(2β-CD) complex** **D V Gowda[1], G.Naveen Datta[1], Siddaramaiah[2]and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.
TS20#06	**Formulation and evaluation of polymeric Orodispersible tablets contains Ibuprofen loaded microfiber for betterin vitro dissolution** **D V Gowda [1], Subham Jain N[1], and Siddaramaiah[2],** [1] Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [3]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.

Program Schedule

Day # 3 – Technical Session

Theme: Additive Manufacturing and Fabrication

Technical Session: 21

Date: 18-01-19 **Time: 2.00 – 4.15 PM** **Venue: Hall 1**

INV-03	**Donor-Acceptor Based Conjugated Polymers and Quantum Dots for Organic**

	Electronic Applications **Chinna Bathula** Division of Electronic and Electrical Engineering, Dongguk University, Seoul 04620, Republic of Korea. Email: cdbathula@gmail.com, cdbathula@dongguk.edu
INV37	**Additive Manufacturing of Ceramics and their Composites** **R. Ramachandra Rao** Senior Principal Scientist, Materials Science Division, CSIR-National Aerospace Laboratories, Bangalore 560 017, INDIA Email: rrrao@nal.res.in**,** yaksharao@gmail.com
INV-67	**Studies on Plug Assist Thermoforming: Effect of Process Parameters** **D. S. Marathe** School of Petroleum, Polymer and Chemical Engineering, MIT-World Peace University
TS21#01	**Drilling of Kevlar (Aramid) Fiber Reinforced Polymer Laminate (K-1226) Using Solid Carbide Drill K34** **R. Nagaraja[a] and T. Rangaswamy[b]** [a]Helicopter MRO Division, HAL, Bengaluru, KA, India. E-mail: nagaraja65@yahoo.com [b]Government Engineering College, Mosalehosahalli, Hassan Tq. KA, India. E-mail: ranga.hassan@gmail.com
TS21#02	**Wire Arc Additive Manufacturing of Fatigue Resistant Steel Materials: Challenges and Opportunities** **Sharath Rajendran[1], B. Suresha[1] and N. Siva Shanmugam[2]** [1]Dept of Mechanical Engineering, The National Institute of Engineering, Mysuru-, India [2]Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu. E-mail: sureshab@nie.ac.in
TS21#03	**Additive Manufacturing Approach to Investment Casting** **Kumbla Akash Nayak, N. Ramesha[a]andRatheesh M.Y[b]** Dept. of PG Studies, Govt. Tool Room and Training Centre, Mysore [b]Vivrit Motors Pvt. Ltd., Mysore, Email: akashnayak75@gmail.com
TS21#04	**A Study on Design, Fabrication and Testing of Portable Ball Milling Machine** **Girisha L[a], Malteshkumar Deshpande[a], Mahanthesh M R[a], Prashanth H R[b]** [a]Department of Mechanical Engineering, PES Institute of Technology and Management Shivamogga. [b]Department of Mechanical Engineering GM Institute of Technology Davanagere
TS21#05	**Design and Analysis of Injection Mould for the Casing of a Cough Assist Machine** **Akshay B Bhat and N. Ramesha** Dept. of PG Studies, Govt. Tool Room & Training Centre Mysore Email: akshay.bhat3866@gmail.com**,** samarthson@gmail.com
TS21#06	**Machine Learning for Smart Manufacturing: A Review, Perspective and Future directions to Machining Industry** **Rajesh A S[1] and M S Prabhuswamy[2]** Department of Mechanical Engineering, JSS S&T University, Mysuru, India

	Email: as.rajesh.jce@gmail.com
TS21#07	**Design and Fabrication Solar Operated Weed Removing Machine** **Manjunath Ichchangi[a], Sumantha R P[b], Ranjith T R[b], Muavia Mohammed Muqtar[a], Gundappa[a], and Harish Chavan[b]** [a]Dept of Mechanical Engineering, Bearys Institute of Technology, Mangalore, India [b]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science & Technology University, Mysuru, India Email: harishchavan777@gmail.com

Program Schedule

Day # 2 – Technical Session

Theme: Applications of Nanocomposites

Technical Session:22

Date: 18-01-19 **Time: 2.00 – 4.15 PM** **Venue: Hall 2**

INV-10	**Effect of Type and Nature of Binder Used in Photoanode on the Efficiency of Dye Sensitized Solar Cells** **B. Vijaya Kumar Naidu and A. Sai Kumar** Dept of Mateirals Science and Nanotechnology, Yogi Vemana University, Kadapa – 516005, A.P. Email:drvijayboya@gmail.com
INV38	**Natural Products and their Analogues in Energy Conversion and Storage** **Harish M. N. K.** Dept of Chemistry, Acharya Institute of Technology, Soldevanahalli, Bangalore, India
INV-14	**Biocomposites of Functionalized Silk Fibre for Potential Applications in Tissue Engineering** **G K Nagaraja and Sareen Sheik** Department of Chemistry, Mangalore University, Mangalagangothri -574199. Email: nagarajagk@gmail.com
TS22#01	**Surfactant Assisted Synthesis of Porphyrin Nanoassemblies for Photodegradation Studies** **Monisha Manathanath[a,b], Subramaniam Sujatha[a] and G.Unnikrishnan[b]** [a]Bioinorganic Materials Research Laboratory, Department of Chemistry, National Institute of Technology Calicut, NIT Campus P.O., Calicut, India [c]Polymer Science and Technology Research Laboratory, National Institute of Technology Calicut, NIT Campus P.O., Calicut, India Email: sujatha@nitc.ac.in
TS22#02	**Preparation of Chitosan based Nanocomposite Films and their Physico - Mechanical, Optical, Thermal and Antimicrobial Properties** **R.S. Jagadish[a], Manisha[b], M.D. Akashata[c], Prema Viswanath[c] Siddaramaiah[d] and Baldev Raj[e]** [a]Department of Chemistry, JSS Academy of Technical Education, Noida, India [b]Department of Chemistry, Trinity Institute of Innovations and Professional Studies, Greater Noida, India [c]Dept of Food Safety and Analytical Quality Control Laboratory, CFTRI, Mysore [d]Dept of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysore, India

	[e]Dept of Food Packaging Technology Department, CFTRI, Mysore E-mail: jagadishrs@jssaten.ac.in;jagadishrs@yahoo.com,
TS22#03	**Physical and Thermal Properties of ECR-glass Fiber Reinforced Hybrid Epoxy Nanocomposites** **Rashmi[a], and Poornima[b]** [a]Department of Electrical and Electronics Engineering, Siddaganga Institute of Technology, Tumakuru-572 103. Email:**rash_mysore@yahoo.com** [b]Dept. of EEE, Siddaganga Institute of Technology, India; Department of Electrical and Electronics Engineering, Siddaganga Institute of Technology, Tumakuru-572 103.
TS22#04	**Forster Resonance Energy Transfer induced UV to Visible Photon Cutting in Blue Light Emitting Polyvinyl alcohol/Sr0.5Zn0.5O Nanocomposite Films** **Sachhidananda Shivanna[‡], Nithin Kundachira Subramani[$]* Joong Hee Lee[#] and Siddaramaih[‡]*** [‡]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysuru - 570 006, India. [$]Department of Chemistry, The National Institute of Engineering, Mysuru, India. [#]Advanced Materials Institute for BIN Convergence Technology, Department of BIN Convergence Technology, Jeonbuk National University, Republic of Korea. Email: siddaramaiah@gmail.com. nithukundachira@gmail.com
TS22#05	**Investigation of Optical and Electrical Behavior of PC/NiCoCeO$_4$ Nanocomposite Films** **Santhosh G[1], Nayaka G P[2], Madhukar B S[3] and Siddaramaiah[4]** [1]Department of Mechanical Engineering, NMAMIT, Nitte, India [2]Physical & Material's Chemistry Division, National Chemical Laboratory, Pune.[3]Department of Chemistry, Sri Jayachamarajendra College of Engineering, Mysore, India [4]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysore- 570 006, India. E-mail:santhug099@gmail.com
TS22#06	**Investigation of Linear and Nonlinear Optical Properties Brilliant Green (BG) Dye Doped PVA Polymer Composites** **Mallikarjun Anandalli[a], R.F.Bhajantri[a] Shivaraj R. Maidur[b] and Parutagouda Shankaragouda Patil[c]** [a]Department of Physics, Karnatak University, Dharwad, Karnataka, India [b,c]Department of Physics, K.L.E. Institute of Technology, Opposite Airport, Hubballi Email: rfbhajantri@gmail.com
TS22#07	**Enhancement of the Dielectric behavior of Polyvinyl Alcohol with Intercalating Copper Doped Calcium Manganese Oxide Nanoparticles for Polymer Capacitors** **Shivaprasad N[1], Veena M G[1] and Siddaramaiah[2]** [1]Department of Electronics & Communication, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru - 570 006, India [2]Department of Polymer Science & Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru - 570 006, India

Program Schedule

Day # 3 – Technical Session

Theme: Functional Polymers

Technical Session: 23

Date: 18-01-19 **Time: 2.00 – 4.15 PM** **Venue: Hall 3**

INV20	**The Power of Thermodynamics in the Characterization of Polymeric Materials by Inverse Gas Chromatography** **S. Ramanaiah** Department of Chemistry, Rayalaseema University, Kurnool, A P, India E-mail: sram.chem@gmail.com
INV54	**Future Scope of FRP Structural composites in Aerospace and Automotive Industries** **P. S. Shivakumar Gouda** Dept. of Mech. Engg., SDM College of Engineering & Technology, Dharwad, India Email: sp12969@my.bristol.ac.uk,k;psshivakumar@sdmcet.ac.in
INV55	**Isophthalic Polyester based Polymer Composites for Gamma Shielding Applications** **Ambika. M. R** Department of Physics, PES University, Bengaluru-85. Email: mr.ambika01@gmail.com
TS23#01	**Smart Mechano-Adaptable Elastomeric Composites Having Superior Electrical Properties** **Debabrata Ganguly[a] and Santanu Chattopadhyay[a*]** Rubber Technology Centre, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India. Email: santanuchat71@yahoo.com
TS23#02	**Significant Process and Product life improvement of tire retreading envelope by using - Exxpro ™ Specialty Elastomer** **Venkatesh Murthy[1], Sushil Mandot, and Francesco Raffaele De Luca[3]** [1]ExxonMobil Company India Pvt. Ltd., Bangalore, India. Email-venkatesh.murthy@exxonmobil.com [2]ExxonMobil Chemical Company, Texas, USA. Email-sushil.k.mandot@exxonmobil.com [3]ExxonMobil Chemical Europe Inc, Belgian, Europe. Email-francesco.deluca@exxonmobil.com
TS23#03	**Molybdenum Mercaptoacetate Initiated Ring Opening Polymerization (ROP) Of □-Caprolactone (□-CL)** **L. Kannammal[1], B.Meenarathi[2], R. Anbarasan[3*]** [1]Department of Chemistry, SRNM college, Sattur-626 203, Tamilnadu, India. [2]Department of Polymer Technology, Kamaraj College of Engineering and Technology, Virudhunagar 626 001, Tamilnadu, India. [3]Department of Chemical Engineering, National Taiwan University, Taipei-10617, Taiwan; E-mail: anbu_may3@yahoo.co.in
TS23#04	**Functional Additive Masterbatches for Plastics** **Tejas M P and Manjunatha H R** Resil Chemicals Private Limited, Bengaluru; Email: **tejas.etd@resil.com**
TS23#05	**Fabrication of Ga Doped Zno Thin Films by Wet Chemical Spin Coating Technique and Their Temperature Dependent Electrical Conducting Behaviour** **K.M. Sandeep[a*], Prasad Kumar[b], Veena Shivadas Kindalkar[b] and S.M. Dharmaprakash[b]**

	[a]Department of Physics, JSS Science and Technology University, Mysuru, India. [b]Department of Physics, Mangalore University, Mangalagangotri, India. * Department of Physics, JSS Science and Technology University, Mysuru, India. Email: sandy.pinkoo@gmail.com
TS23#06	**Investigation on Design and Development of Photo Stabilized Polypropylene (PP) Tapes for Packaging Applications** **Satish T.S[1,2], and Siddaramaiah[1]** [1]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysore – 570 006, India [2]Konkan Speciality Polyproducts Pvt. Ltd., KIADB Industrial Area, Baikampady, Mangalore, India
TS23#07	**Mechanical and Flammable Performance of Surface Treated Bamboo paper/vinyl Ester Composites** **K. Venkata Chalapathi, and Song Jung-Il** Department of Mechanical Engineering, Changwon National University, Changwon, Korea. Email: jisong@changwon.ac.kr

Program Schedule
Day # 3 – Technical Session

Theme: Polymer blends
Technical Session: 24
Date: 18-01-19 **Time: 2.00 – 4.15 PM** **Venue: Hall 4**

INV-69	**Biomimetic polymers - Learning from sea creatures** **Sania Akhtar** CIPET, Bangalore
INV22	**Formulation and Evaluation of Microporous Membrane Based Controlle Drug Delivery System** **Rajesh. N[1*]and Siddaramaiah[2]**, [1]Department of Biochemistry, Sree Nataraja Institute of Health Sciences, Mysuru-04, Karnataka,India. [2]Department of Polymer Science and Technology, JSS Science and Technology University, Mysuru- 06, India. Email: raj3481@gmail.com
INV-62	**Studying the Higher Loading of Aluminum Hydroxide Using LLDPE/EVA Blends, and Assessing the Resulting Mechanical and Flame-Retarding Properties** **Prakash Hadimani and Atanu Maity** [1] STEER, 290,4th Phase, 4th Main, Peenya Industrial area, Bangalore, India
TS24#01	**EVA/PU Elastomer Blends Reinforced with Nanohydroxyapatite** **Shafeeq V H and G Unnikrishnan*** Polymer Science and Technology Research Laboratory, National Institute of Technology Calicut, NIT Campus PO, Kozhikode – 673601. E-mail: unnig@nitc.ac.in
TS24#02	**Miscibility Studies of HPMC/PEG Blend Films with Surfactant Using XRD Technique Before and After Gamma Irradiation**

	Hadadi Yallappa[1], J. Sannappa[2] , Samartharama, B.N.[1], L. R. Shivakumara[3] and T. Demappa[4]* [1]Department of Physics, SJVP College Autonomous, Harihara- 577601, Davangere, Karnataka, India. [2]Department of Physics, Kuvempu University, Shankaraghatta, Shivamoga, India. [3&4]Dept. of Studies and Research in Polymer Science, University of Mysore, Sir MV. Post-graduate Centre, Tubinakere, Mandya- 02, Email: tdemappa2003@yahoo.co.in
TS24#03	**Quantitative Analysis of Intermolecular Interactions of PLPs with PVA Blends** **Kathyayani, D.[a],Mahesh B.[a*], and Channe Gowda, D.[b]** [a]Department of Chemistry, JSS Academy of Technical Education, Dr. Vishnuvardhan Road, Bengaluru-560 060, India [b]Department of Studies in Chemistry, Manasagangotri, University of Mysore, Mysuru-570 006, India. E-mail: maheshb22@gmail.com
TS24#04	**Miscibility Studies of Polyethylene Oxide/Carboxy Methyl Cellulose Blend** **Samartha Rama B N[1], Nagaiah N[2*], Hadadi Yallappa[1] and T.Demappa[3*]** [1]Department of Physics, SJVP College Autonomous, Harihara-577601, Davanagere, Karnataka, India. [2]Department of Physics, Bangalore University, Bengaluru [3]Department of Post-graduate Studies and Research in Polymer Science, University of Mysore, Sir MV Post-Graduate Centre, Industrial Area, Tubinakere, Mandya-571402
TS24#05	**Study on anaerobic biodegradation behavior of PP/EVOH food packaging containers** **AB Hemavathi[*], Kishora VK, Charitha MS, Parinitha Babu, Bharath M, Dinakar P and Siddaramaiah** Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, Mysore-570006, India, E mail: hemavathi@jssstuniv.in
TS24#06	**Physical and Mechanical Characterisation of Nylon6 Blends with Thermoplastic Copolyester, with Different Compatibilization Techniques** **S. Srinivas[1] and Siddaramaiah[2]** [1]Product Development Dept., Brakes India Private Limited, Nanjangud, India [2]Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru, India Email: srinivas.s@brakesindia.co.in, &sr63@jssstuniv.in

Program Schedule

Day # 3 – Technical Session

Theme: Advanced Drug Delivery System

Technical Session: 25

Date: 18-01-19 **Time: 2.00 – 4.15 PM** **Venue: Hall 5**

INV43	**Biomaterials and Bioengineering Tomorrow's Healthcare** **Dr. Meenakshi S** Department of Prosthodontics, JSS Dental College and Hospital, JSS Academy of Higher Education and Research, Mysore
INV50	**Bio-ceramics Synthesis from Coral Cuttlefish Bone for Bone Tissue Engineering**

	Santosh Kumar B. Y, and G. C. Mohan Kumar [1]Polymer Composites Laboratory, Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore-575 025, India email: mkumargc@gmail.com
INV-70	**Smart packaging- Spoilage indicator for perishable food products** **Rajeshwar S Matche** Food Packaging Technology, Professor ACSIR, CSIR- Central Food Technological Research Institute, Chelluvamba mansion, Mysore. Email: rajeshmatche@yahoo.com
TS25#01	**Development and Evaluation of SMILE TABS®- A new alternative eco-friendly approach to eliminate issues with toothpaste (Tooth Cleansing Tablets) with Sodium fluoride against the Oral Microbiota.** **D V Gowda[1], Tejasswini R[2]and Meenakshi S[3]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka India,. [2] M.Pharmacy in Cosmeceutics, Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka India [3]Department of Prosthodontics, JSS Dental College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.
TS25#02	**Development and evaluation of controlled released Almond gum spherules containing Aceclofenac sodium and paracetamol to improve patient compliance.** **D V Gowda [1], Suraj S[1]and Siddaramaiah[2]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India.
TS25#03	**Mechanistic role of cellulose polymer inhibiting crystallization in saturated state** **Akhila A R[1], and P K Kulkarni[1]** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, SS Nagara, Mysuru, Karnataka, India.
TS25#04	**Coconut oil and silver nanoparticles simultaneously loaded onto polyurethane nanofibers for wound-healing applications** **D V Gowda [1], SubhashreeSahoo[1], Siddaramaiah[2]and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.
TS25#05	**Nano sponges for the enhancement of topical sustained delivery of Terbinafine HCl** **Ananya K V, Preethi S and D.V. Gowda** Department of Pharmaceutics, JSS College of Pharmacy, JSSAHER, SS Nagara, Mysuru, Karnataka, India.
TS25#06	**Formulation and evaluation of methotrexate loaded nano emulsion for Rheumatoid arthritis**

	D. V. Gowda [1], Saheli Das[1], Siddaramaiah[2], and Hemalatha S[3]. [1] Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India
TS25#07	**Development and evaluation of co-amorphous based supersaturated transdermal formulation** **D V Gowda [1], Nanhi Nandini[1], Siddaramaiah[2]and Hemalatha S[3].** [1]Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India. [2]Department of Polymer science and Technology, S J College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India. [3]Department of Anaesthesia, JSS Medical College and Hospital, JSS Academy of Higher Education and Research, S S Nagara, Mysuru, Karnataka, India.

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