

**July 10<sup>th</sup> 2015**

**Oral Session -27**

**Semiconducting Materials**

**SESSION TIMINGS: 10.00 A.M – 12.30 P.M**

<b>RS-193</b>	Sumit Majumder	The effect of SiO <sub>2</sub> coating on structural, optical, magnetic, hyperfine and photoconductivity property of Fe <sub>3</sub> O <sub>4</sub> in Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> core@shell
<b>RS-222</b>	Parameshwari P M	Electrical behaviour of CdS/Al Schottky barrier diode at low temperature
<b>RS-295</b>	Guru Nisha Narayanan	Influence of different concentrations of Cetyl trimethylammonium bromide on Morphological; structural and optical properties of XnO nanorods
<b>RS-259</b>	V.S. Balashanmugam	Quantum dots for harvesting energy from sunlight
<b>RS-167</b>	P. Mareeswari	Biosynthesis and Imaging of Cadmium Chalcogenide Quantum Dots
<b>RS-699</b>	I. Jyothi	Modification of electrical characteristics of Al/p-Si Schottky diodes with PEDOT:PSS:GO composite as an interlayer
<b>RS-698</b>	V. Janardhanam	Rapid thermal annealing effects on the electrical properties and microstructural evolution of Cu-germanides formed on n-type Germanium
<b>RS-261</b>	R. Mohandoss	Emission behaviour of pure and Li doped nanoporous silicon

**Oral Session -28**

**Advanced Functional Materials**

**SESSION TIMINGS: 10.00 A.M – 12.30 P.M**

<b>RS-369</b>	Viji S	An optimization study of optical intensity of amine functionalized diatom frustules
<b>RS-383</b>	Karanam Madhavi	Effect of plasma ion etching on Si nano wires towards superhydrophobicity
<b>RS-536</b>	Anuj Kumar Sharma	Tribological Investigation of TiO <sub>2</sub> Nanoparticle based Cutting Fluid in Machining under Minimum Quantity Lubrication (MQL)
<b>RS-388</b>	Ashok L Sunatkari	Enhanced nonlinear optical properties of L-arginine stabilized gold nanoparticles embedded in PVP polymer
<b>RS-425</b>	Jogindra nath Sahu	A novel method for development of Hard nanocrystalline surface through SMAT and mechanical Alloying
<b>RS-585</b>	Bhuvanseshwari B	Corrosion inhibition performance of Mg-La co-ordinated hydrotalcite nanocomposites against cold formed steel
<b>RS-687</b>	Elammaran Jayamani	A Comparative study of an effect of structures of Luffa and Sisal fibers and their composites on Sound absorption coefficients
<b>RS-603</b>	S M Muzakkir	Experimental investigations on effectiveness of molybdenum disulphide and zinc nano particles as lubricant additive in mixed Lubrication conditions
<b>RS-348</b>	Somnath C Roy	Graphene wrapped TiO <sub>2</sub> nanotubes : synthesis and photo-electrochemical properties
<b>RS-517</b>	Soumya Ranjan Patra	Electron microscopy analysis of CdSe-CdS rod coated mimosa pudica fibre
<b>RS-711</b>	P.Sudhakar Rao	Characterization of nano level surface finish of titanium alloys (ti-6al-4v) in different electrolytes by electro chemical honing(ech)process
<b>RS-374</b>	Anuj Kumar Sharma	Characterization of TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> Nanoparticle based Cutting Fluids
<b>RS-381</b>	Anuj Kumar Sharma	Characterization and Experimental Investigation of Al <sub>2</sub> O <sub>3</sub> Nanoparticle based Cutting Fluid in Turning of AISI 1040 Steel under Minimum Quantity Lubrication (MQL)

**Oral Session -29**  
**Thin Films and Surface Engineering-III**  
**SESSION TIMINGS: 10.00 A.M – 12.30 P.M**

<b>RS-188</b>	Manikandan V. N.	Microstructural and mechanical properties of magnetron sputtered SiOXNY thin films
<b>RS-228</b>	Dhimmar J M	The effect of interface states density distribution and series resistance on electrical behaviour of schottky diode
<b>RS-444</b>	Indu Gupta	Bath temperature dependence properties of ammonia-free chemical bath deposited CdS Thin Films
<b>RS-185</b>	Pranav Shashidhar	V <sub>2</sub> O <sub>5</sub> Thin Films for 2-Propanol Vapour sensing
<b>RS-187</b>	M. Krishna Kumar	Effect of Aluminium doping on the properties of Magnetron sputtered ZnO thin films
<b>RS-152</b>	Murali K R	Photoelectrochemical behaviour of pulse plated CuIn <sub>0.6</sub> Al <sub>0.4</sub> Se <sub>2</sub> thin films
<b>RS-575</b>	Veena E	Effect of substrate temperature on structural and electrical properties of spray deposited lead sulphide thin films
<b>RS-356</b>	Abhilasha S L	Deposition of Nanostructured multilayer coating of CZTS thin films by vacuum thermal Evaporation method
<b>RS-353</b>	Devandrappa H	Optical thermal and Fluorescence properties of spin coated solid polymer electrolyte film
<b>RS-189</b>	P. R. Kishore Kumar	Characterization of magnetron sputtered Si <sub>3</sub> N <sub>4</sub> thin films deposited on aluminium alloy substrates
<b>RS-468</b>	Mayukh Chakravarty	Synthesis and bio-compatibility study of Thermal-CVD grown Graphene
<b>RS-378</b>	Sujit Kumar Verma	Performance analysis of flat-plate solar collector using nanofluids
<b>RS-490</b>	Sam Baskar S	Synthesis and Characterization of Silicon nanocrystals in SiC matrix using sputtering and PECVD

**Oral Session -30**  
**Catalysis-nanomaterials**  
**SESSION TIMINGS: 10.00 A.M – 12.30 P.M**

<b>RS-451</b>	Linda T	Photocatalytic degradation of congo red and crystal violet dyes on cellulose/PVC/ZnO composites under UV light irradiation
<b>RS-573</b>	Elavarasi N	Decolorization of CI reactive Red 238 & CI Reactive Blue 235 from textile industry wastewater by biosynthesised iron oxide nanoparticles
<b>RS-225</b>	Radhika R Nair	Ceria doped Titania Nano particles: Synthesis and Photo catalytic activity
<b>RS-239</b>	Padmalaya G	Photocatalytic behaviour of ZnS and ZnO nanoparticles and their mixture
<b>RS-266</b>	Sunaja Devi K R	Modified Montmorillonite: An efficient and reusable catalyst for the synthesis of 2,3-bis(4-fluoro-phenyl)6-nitroquinoxalines derivatives
<b>RS-278</b>	Thejaswini T V L	Synthesis of mesoporous Titania-Silica Monolith composites -A comprehensive study on their photocatalytic Degradation of Acid Blue113Dye under UV light
<b>RS-402</b>	Vipul Sharma	Shape selective Au-TiO <sub>2</sub> for photocatalytic applications
<b>RS-532</b>	Gouse Peera	DNA assisted synthesis of Pt nanoparticles on graphite nanofibers as durable oxygen reduction catalyst in acidic media
<b>RS-552</b>	Dhanasekaran P	Activity and durability of TiON-supported-Platinum as electrocatalyst for polymer electrolyte fuel cell (PEFC)
<b>RS-229</b>	Kavitha V	Synthesis of Cu loaded TiO <sub>2</sub> nanocomposite for the improved photo catalytic degradation of Rhodamine-B
<b>RS-642</b>	G. Ramanjaneya Reddy	Synthesis and characterization of supercage encapsulated macrotricyclic complexes of nickel(II) and copper(II): Photocatalytic activity towards methylene blue

**Oral Session -31**  
**Young Researcher Award Talks**  
**SESSION TIMINGS: 10.00 A.M – 12.30 P.M**

**POSTER Session**  
**SESSION TIMINGS: 12.30 A.M – 01.30 P.M**

<b>RS-408</b>	Kalpana M B	Nanotechnology
<b>RS-128</b>	Dayanandan A	Fungal mediated production of extracellular laccase and its application in synthesis of gold nanoparticles
<b>RS-130</b>	Vinita Vishwakarma	Enhancing antimicrobial properties of fly ash mortars specimens through nanophase modification
<b>RS-136</b>	Suganiya	Atomic force Microscopic imaging of quantum dots by loading in plant cells
<b>RS-138</b>	Sreedhar M	the structural and optical studies of Mo doped TiO <sub>2</sub> films prepared by sputtering technique
<b>RS-164</b>	Neelakanta Reddy	Structural and morphology studies of silver doped barium strontium titanate thin films prepared by pulsed laser deposition
<b>RS-176</b>	Madan kumar A	Enhanced antiproliferative Potential of Thymol loaded PLGA based polymeric nanocapsules on human oral cancer cells
<b>RS-180</b>	Preeti Goyal	Azadirachta Indica Leaf Powder: A Green economical nano biomaterial for removal of Cd (II) and Ni (II) from waste water
<b>RS-194</b>	Viswanathan K	Silicon with CNT thin film coated for piezoelectric transducer
<b>RS-203</b>	Dharini T	Influence of substrate temperature on the adhesion property of YSZ coating on inconel 718 prepared by EBPVD
<b>RS-206</b>	Vinita Vishwakarma	Biological behaviour of TiN, ZrN single and TiN/ZrN multi layer coated 316L SS for biomedical application
<b>RS-207</b>	Nirmala N	Synthesis of silver nanoparticles from Pongamia pinnata Seed extract and its detoxification effect with Crude plastic oil
<b>RS-208</b>	Lakshmi Devi	Biosynthesis of silver nanoparticles using plant extracts of simlax zeylanica and characterisation of Antibacterial activity against pathogenic biomedical waste isolates
<b>RS-223</b>	Pradhaban	Nanomechanical properties of TiN/ZrN multilayers prepared by Pulsed laser deposition
<b>RS-255</b>	Shyju T S	Structural ,Optical and electrical properties of cadmium sulphide thinfilms by thermal evaporations
<b>RS-282</b>	Sreedhar M	The studies of Cu doped ZnS thin films prepared by rf magnetron Sputtering
<b>RS-355</b>	Vinita Viswakarma	Microstructural Optical Antibacterial and Hemocompatibility Properties ZnO coated glass substrate using RF magnetron sputtering
<b>RS-360</b>	Neelakanta Reddy	Investigation of antibacterial properties of Fe <sub>3</sub> O <sub>4</sub> , ZnO and Fe <sub>3</sub> O <sub>4</sub> doped ZnO
<b>RS-361</b>	Neelakanta Reddy	SiO <sub>2</sub> Hydrophobic thin films prepared by sputtering Technique

<b>RS-430</b>	Vinita Vishwakarma	Mechanical and microstructural properties of concrete modified with hematite
<b>RS-434</b>	Vinita Vishwakarma	Effects of cow dung ash modified concrete against sulphuric acid attack
<b>RS-435</b>	Vinita Vishwakarma	Studies of Rice husk ash nanoparticles on the mechanical and microstructural properties of the concrete
<b>RS-140</b>	V P ManjaMadha	Pretreated lignocellulosic waste mediated biosynthesis of silver nanoparticles under room temperature
<b>RS-115</b>	Ramesh C	Structural and Magnetic study on Al Substituted MgZn Mixed Ferrite Powders prepared by sol-gel method
<b>RS-177</b>	Porchilamban	A study of material and mechanical characterization on dissimilar weldments of AISI 316L and AISI 430
<b>RS-191</b>	Sangeetha M	Wear properties estimation and characterization of coated ceramics with multi wall carbon nano tubes (MWCNT) reinforced in Aluminium matrix composites
<b>RS-204</b>	Ramesh C	A novel route synthesis and characteristics of MgO.Zn <sub>0.7</sub> Ni <sub>x</sub> Fe <sub>2</sub> XO <sub>4</sub>
<b>RS-232</b>	Alexander J	Influence of hygrothermal effect on natural frequency of basalt frp composite
<b>RS-238</b>	Anita Lett J	Ontogenesis of porous hydroxyapatite for biological implants
<b>RS-281</b>	Ramesh kumar E	XRD and electrical studies of D%AgI-(100-D)%[0.667Ag <sub>2</sub> O-0.333{(0.4)B <sub>2</sub> O <sub>3</sub> -(0.6)TeO <sub>2</sub> }] Fast ion conducting glasses
<b>RS-317</b>	Ravi T	10-nanometer carbon Nano Tube field effect transistor based high celerity transposed polyphase decimation filter
<b>RS-339</b>	Yeswanth R	Sensing of Acetone Using MOS Based chemical sensors: A Review
<b>RS-391</b>	Adella Sai Prudhvi Raj	Ba salt fiber nano composites
<b>RS-565</b>	Mattipally Prasad	Spark plasma sintering of nano composites : challenges and opportunities
<b>RS-625</b>	S J Elphej Churchill	Structural analysis of multi layered filament wound composite cylinder as aircraft fuselage
<b>RS-633</b>	T Sripriya	Simulation of Circular diaphragm based optical MEMS pressure sensor
<b>RS-679</b>	Logesh K	Experimental Investigation on Formability of Heat Treated AA19000, AA5052 and Validation Using ABAQUS/CAE
<b>RS-686</b>	K S CHOUDHARI	Optical interferometric properties of porous anodic alumina nanostructure
<b>RS-708</b>	V.K.Bupesh Raja	Investigation on metallurgical and mechanical properties of DSS / HRS dissimilar weldments using GTAW process
<b>RS-118</b>	Krishnakath R	Synthesis of NiO and Fe-doped NiO nanoparticles by chemical co-precipitation method
<b>RS-160</b>	Karthick Raja Namasivayam	Evaluation of phosphorous release profile and plant growth promoting effect of chitosan nanoparticles in incorporated organic compost
<b>RS-504</b>	J Narayanan	Boron-nitride supported Au-Pd bimetallic nanocatalyst for redox cycling based electrochemical immunoassay
<b>RS-165</b>	Leo Sahaya Daphne A	Electrochemical amperometric sensor for S-Glucometer to detect glucose level in human perspiration
<b>RS-170</b>	Sivasaravanan S	Mechanical characterization of Epoxy LY556 Laminated with different types of fiber in composite material

<b>RS-179</b>	Jaisankar V	An effectiveness impact characterization of epoxy Ly556/E-Glass fiber/CNT Conventional Hybrid composite Materials
<b>RS-233</b>	Durairaj R B	Investigation of corrosion behaviour of Ti/TiO <sub>2</sub> Bi-layer coated SS316L for Implant application
<b>RS- 130</b>	Vinita Vishwakarma	Enhancing Antimicrobial Properties of Fly ash Mortars Specimens through Nanophase Modification should be in poster
<b>RS-259</b>	Balashanmugam V S	Quantum dot for harvesting energy from sunlight
<b>RS-392</b>	Kumaravel D	Reductino of cavitation in centrifugal pump using monel coating
<b>RS-433</b>	Britto Joseph G	Corrosion behaviour of SA 387 Gr 22 steel surface overlaid by ER 410 filler rod using TIG welding
<b>RS-463</b>	Kavitha Bharathi	Nanotechnology in food Packaging
<b>RS-506</b>	Aishwarya S	Desgin and optimzation of connecting rod for 4-stroke petrol engine by using finite element analysis
<b>RS-523</b>	Kathirnanjundan K	Green sunthesis of silver nanoparticles doped aluminum foil using parabolic dish solar water heater
<b>RS-535</b>	Kumaravel D	Reduction of crrosion effect using monel coating
<b>RS-548</b>	Mageshwaran G	studies on influence of water based additives in biodiesel on the performance and emission characteristics of a CI engine
<b>RS-612</b>	S .Thirumavalavan	Structural, Morphological, optical and electrical properties of Zinc selenide (ZnSe) Thin film
<b>RS-649</b>	S V Priya	EPGA based Hardware Architecture for Noise Removal lusing bilateral filter
<b>RS-667</b>	Castro J	Study of PHBV polymer coated magnesium alloy by electrospinning for biomedical implant applications
<b>RS-668</b>	Jatin Kumar Badhana	Compartitive strength analysis of adhesive bonded glass-epoxy composites
<b>RS-669</b>	V Arun	Intrusion detection in jAd-hoc using Pile-Facts approach with TCM Server
<b>RS-673</b>	Chitra N	Characterization of Green synthesized of silver nanoparticles from an allergenic fungus with antimicrobial assay combined with antibiotics
<b>RS-538</b>	B.Harinathan	A Global breakthrough in Green revolution through Nano Carbon Technology
<b>RS-709</b>	V.K.Bupesh Raja	Effect of coconut shell powder as filler in jute fibre and glass fibre epoxy composites – a fractographic analysis
<b>RS-559</b>	Samvit Menon	Facile Synthesis of CuAl <sub>2</sub> O <sub>4</sub> Spinel and its Use in the Photoassisted Degradation of Methyl Orange
<b>RS-632</b>	Felcy Jyothi serra	Effect of electron irradiation on the properties of GZO thin films deposited by Sol-Gel method
<b>RS-387</b>	Britto Joseph G	Corrosion behaviour of SA 387 Gr 22 steel surface overlaid by ER 410 filler rod using TIG welding
<b>Rs-480</b>	Saravanamuthukumar P	Electrical discharge machining parameter of al/Sic/B <sub>4</sub> C hybrid metal matrix nanocompositete