

TECHNICAL PROGRAMME OF WCM 2015

1st Day of the Conference (9th October 2015)		
	8.00-8.30	REGISTRATION
	8.30-9.00	INAUGURATION
		Plenary Session (Chairpersons: Maria de Lourdes Pereira, Portugal & Mzia G. Zhvania, Georgia)
PL	9.00-9.45	Leszek A. Dobrzański, Poland Advanced Electron Microscopy Methods Aiding The Development of Materials Science And Their Surface Engineering
	9.45-9.55	Tea Break
		Microscopy for Biology –I (Chairpersons : & Ana Senos, Portugal P D. Gupta, India)
IL	9.55-10.15	Galina F. Antonova, Russia The application of light microscopy for studying the processes of formation and decomposition of wood
IL	10.15-10.35	Ayanthi N. Navaratne, Srilanka Chemical And Microscopic Characterization of Gallstones Obtained From A Cohort of Patients With Gallstone Disease In Kandy District of Sri Lanka
IL	10.35-10.55	Mzia G. Zhvania , Georgia Electron Microscopic Study of Rat Neuronal Porosome Complex in Norm And Pathology
IL	10.55-11.15	Somsubhra Gupta, India Production Systems for Identification of Correspondence between Genetic Patterns and Hand-written Signatures in a Family Hierarchy
IL	11.15-11.35	A. Jamsheera, India Synthesis, DNA Recognition And Cleavage Studies of Novel Tetrapeptide Complexes, Cu(II)/Zn(II)-Ala-Pro-Ala-Pro
IL	11.35-11.55	Vijaya R. Chavan, India Effect of Lead on Morphological And Biochemical Profile of Fish Liver
IL	11.55-12.15	Kailash Chandra Jena , India Three Dimensional Self-Assembly Lipid Monolayer and Head Group Hydration
	12.15-13.15	Lunch Break
		Microscopy for New Materials- I (Chairpersons : Ram Mohan, USA & Kailash Chandra Jena , India)
IL	13.15-13.35	Vijay Fulari , India Performance Evaluation of Photoelectrochemical Properties By Electron Irradiated Photoelectrodes
IL	13.35-13.55	Ravi Chandra Gundakaram, India Applications of Electron Backscatter Diffraction in Materials Science
IL	13.55-14.15	V. Jayaram, India Microstructure Analysis of Strong Shock-Treated Materials
IL	14.15-14.35	Dharmendra C. Kothari, India

		Soft-enCapsulation of the Elastovisco-Plastic Materials Microscopy for Newmaterials
		Electrochemistry/ Fuel Cells (Chairpersons : Vibha Nikose, India & Vijaya R. Chavan, India)
IL	14.35-14.55	Anuradha Ashok , India Superstructure Formation Through Vacancy Ordering In Complex Perovskites: A Tem Perspective
IL	14.55-15.15	Srimanta Ray, India Evaluation of Low Cost Electrodes for Electrochemical Degradation of Pharmaceuticals: A Case Study on Methylene Blue
		Microscopy for Animal Model (Chairpersons : Vibha Nikose, India & Vijaya R. Chavan, India)
	15.15-15.35	Maria de Lourdes Pereira , Portugal Cr(III)-tris(picolate) Induced Multi-organ Toxicity on Mice: Microscopy Studies
	15.35-15.45	Tea break
		Microscopy for Alloys (Chairpersons : V. Jayaram, India & Anuradha Ashok, India)
IL	15.45-16.05	D.G. Kuberkar, India Studies on Grain Morphology Effects in Mixed Valent Manganite
IL	16.05-16.25	M . Manikandan, India Investigation Of Microstructure, Mechanical And Corrosion Behavior Of Alloy C-276 Fabricated By Autogenous Pulsed Current Gas Tungsten Arc Welding Technique Microscopy for Alloys
IL	16.25-16.45	Kapil Sood, India Microstructural And Electrical Conduction Study of La _{1-x} Ca _x GaO _{3-δ} Perovskite
SIL	16.45-16.55	Anuradha kumari, India Studies on preparation and dielectric properties of Ba(1-x) SrxTiO3
		Microscopy- New Development (Chairpersons: D.G. Kuberkar, India& Ravi Chandra Gundakaram, India)
IL	16.55-17.15	P. Suresh, India Optical Trapping
IL	17.15-17.25	Vinu, R.V, India Correlation Holography for Imaging Through Random Media
		Microscopy for Nano- I (Chairpersons: J.K.Rath, The Netherlands & G.S. Sailaja, India)
IL	17.25-17.45	Mahendran Samykano , Malaysia In-Situ Scanning Electron Microscopy (SEM) Techniques and Practices in Sample Preparation for Nano Device Based Mechanical Characterization of 1-D Nanostructures
IL	17.45-18.05	Ram Mohan, USA Scanning Electron Microscopy (SEM)Based Mechanical Characterization of 1-D Nanostructures – Nickel Nanowires
IL	18.05-18.25	Anita SagadevanEthiraj, India Investigation of Organic Dye Entrapped Silica Particles Prepared using a Novel Synthesis Approach and its Photostability Study

IL	18.25-18.45	Purnendu Parhi, India Rapid Synthesis and Characterization of Micro and Nano Ceramics.
IL	18.45-19.05	Shivani Dhall, India Multiwalled Carbon Nanotubes Based Hydrogen Gas Sensor
SIL	19.05-19.15	Gururaj Kudur Jayaprakash, Mexico Regioselectivity For Charge Transfer In Graphene
	19.15-20.00	Brain Storming Discussion
	20.00-20.30	Poster Session
	P 1	A. Padmanaban, India Electrochemical Sensing Behaviour Of Ranitidine Using CeO ₂ @SiO ₂
	P 2	Afeesh Rajan Unnithan, South Korea Nanoengineered Bioactive 3D Composite Scaffolds for Bone Tissue Engineering: A Unique Combination of Growth Factor and Nanotopography Induced Osteogenesis
	P 3	Ana Senos, Portugal Advanced Microstructural Characterization of WC-AISI304 Cemented Carbides
	P 4	Vishesh Manjunath, India Synthesis and characterization of Surface Modified Fe ₃ O ₄ Nanoparticles for the application of Hydrogen Peroxide Sensor
	P 5	Debasish Kumar Ghosh, India Multi-tier structural organizations of Huntingtin Interacting Protein K function in sensing and reduction of intra-cellular Huntingtin aggregates
	P 6	Fursey G.N, Russia The total energy distribution features of field emission from graphene structures.
	P 7	Mamlayya Vijayalaxmi Balbhim, India Layered Maghemite-Polyaniline Composite Thin Films For High Performance Electrochemical Supercapacitor Electrodes
	P 8	Nitali Anil Tadkalkar, India Correlative imaging of Dengue-2 infected and Dengue-Virus NS1 protein treated endothelial cells shows evidence of alterations in junctional architecture.
	P 9	Rahul Elamon, India Characterisation of EPDM compatibilized PP/HDPE/xGNP hybrid composites for automotive applications.
	P 10	Rajendra Kumar Angara, India Rv2989, an IclR like transcription regulator expressed in Mycobacterium smegmatis shows polar localization and modulates its growth
	P 11	Rashmirekha Pati, India Zinc-Oxide Nanoparticles Exhibit Genotoxic, Clastogenic And Cytotoxic Effects By Inducing Oxidative Stress Responses In Macrophages And Adult Mice
	P 12	S. Praveen Kumar, India Microwave Synthesis of tris-(1,10-phenanthroline) vanadium(III) complex and its electrocatalytic activity towards uric acid

	P 13	Shailesh Kumar Gupta, India Identification and Evolutionary Analysis Of A Bipartite Nuclear Localization Signal In Huntingtin Interacting Protein K
	P 14	Sharda Prasad, India Fine Structure Of SK Hep1: A Novel Human Endothelial Cell Line Using Transmission Electron Microscopy Imaging
	P 15	S. Vijayakumar, India Green Synthesis and characterization of ZnO nanoparticles and their antibacterial efficacy of Gram-positive and Gram negative bacteria
	P 16	Maria de Lourdes Pereira, Portugal Light Microscopy of Male Reproductive Organs after CdCl ₂ Exposure: Focus on Morphometric Analysis of Testis and Sperm Parameters
	P 17	B Namratha Rani, India Inhibitory activities of Cyclooxygenase (COX)-2 by the active principles of Hybanthus enneaspermus
	P 18	Ângela Barreto, Portugal Histopathological Effects of Gold Nanoparticles And Gemfibrozil On Gilthead Seabream sparusaurata
	20.30-21.00	Cultural Programme
	21.00-22.00	Dinner
2nd Day of the Conference (10th October 2015)		
		Plenary Lecture (Chairpersons: Leszek A. Dobrzański, Poland & M.K. Mohamad Haafiz, Malaysia)
PL	8.30-9.15	Ana Senos, Portugal Analysis of The Stress Assisted Sintering Effects on The Microstructure of BaLa ₄ Ti ₄ O ₁₅
	9.15-9.25	Tea Break
	Microscopy for Nano-II Chairpersons : Mahendran Samykano, Malaysia & Anita Sagadevan Ethiraj, India)	
IL	9.25-9.45	J.K.Rath, The Netherlands Electrical Characterization of Semiconducting Nanoparticles By Advanced Atomic Force Microscopy Techniques
IL	9.45-10.05	M.K. Mohamad Haafiz, Malaysia Comparing The Structure, Morphology and Thermal Properties of Micro And Nanoscale Cellulose From Oil Palm Biomass
IL	10.05-10.25	Tanveer Saleh, Malaysia Application of Vertically Aligned Carbon Nanotubes (VACNTs) for MEMS devices
IL	10.25-10.45	G.S. Sailaja, India Aminoacid Induced Microarchitectonics of Metal and Metal Oxide Nanocrystals
IL	10.45-11.05	Ratiram G. Chaudhary, India Metal Oxide Nanoparticles: Synthesis, Characterization, Efficient Catalytical And Biological Applications
IL	11.05-11.25	Sushmita Jha, India Amorphous Nano-Silica Mediates Cellular Toxicity And

		Inflammation Via ASC
		Microscopy for Images (Chairpersons : Tanveer Saleh, Malaysia & Purnendu Parhi , India)
IL	11.25-11.45	Raj Kumar Gupta, India Surface Plasmon Resonance: From Bio-Sensing Through Imaging to Dielectric Measurement and Optical Filtering Applications
IL	11.45-12.05	Sandip Kumar Dhara, India Light Matter Interaction: A New Technique in Sub-Diffraction Imaging and Analysis
SIL	12.05-12.15	S. Karthi, India Luminescent Hydroxyapatite Nanoparticles For Bioimaging Applications
		Holographic Microscopy (Chairpersons : Ratiram G. Chaudhary, India & Sushmita Jha, India)
	12.15-12.35	C S Narayanamurthy, India Digital Holographic Microscopy
	12.35-13.30	Lunch Break
		Microscopy for Biology-II (Chairpersons : Ayanthi N. Navaratne, Srilanka & Somsubhra Gupta, India)
IL	13.30-13.50	Orsolya Kántor, Hungary The Stratified Organization and Disorganization of The Inner Plexiform Layer Revealed By TNAP Activity In Healthy and Diabetic Rat Retina
SIL	13.50-14.00	Aamir Sohail, India Structural Transitions Induced By In Vitro Macromolecular Crowding Leads To The Amyloidogenesis Of Buffalo Heart Cystatin (BHC)
SIL	14.00-14.10	E. Marimuthu, India Analysis of Soil Physico-Chemical And Bacterial Diversity Of Soil For The Growth of Endangered Medicinal Plant Species, Southern Western Ghats
SIL	14.10-14.20	B Namratha Rani, India Microscopic And Histological Analysis of Normal And Cryopreserved Sperm
		Microscopy for New materials-II (Chairpersons : Dharmendra C. Kothari, India & Raj Kumar Gupta, India)
IL	14.20-14.40	Vibha Nikose, India Synthesis, Characterization & Biological Activities Of New Substituted-1-(7-Nitro-10h-Phenothiazine-3-YI)-3-(4-Nitrophenyl) PROP-2-EN-1-One
SIL	14.40-14.50	Vivek V. Bhide, India Elevated Temperature Implantation of 70 MeV Au in GaAs.
SIL	14.50-15.00	Rathes kannan, India Investigation of Quantum Confinement Effect in ZnPc/PbSe Multiple Quantum Well Structure Through Thermal Evaporation Technique
		Microscopy for Health Care (Chairpersons : Ratiram G. Chaudhary, India & Sushmita

		Jha, India)
IL	15.00-15.20	G.K. Menon, USA Electron Microscopy Applications In Dermatology Research And Personal Care Product Development : Success Stories Recounted.
SIL	15.20-15.30	Shoaib Sharief, India Concentration of C-Phycocyanin from Spirulina Platensis using forward osmosis membrane process
	15.30-15.40	Tea Break
	15.30-18.00	Boating
	19.00-21.00	Dinner
3rd Day of the Conference (11th October 2015)		
	Plenary Lecture (Chairpersons: Bernard Deconihout, France & Satheesha Nayak B, India)	
PL	8.30-9.15	Ludek Frank, Czech Republic Electron Microscopy at Ultralow Energies
	9.15-9.25	Tea Break
	Microscopy for Nano - III (Chairpersons: Ludek Frank, Czech Republic & Radha Prasanna, India)	
IL	9.25-9.45	Noriaki Takagi, Japan Exploring Nano World with Scanning Tunneling Microscopy
IL	9.45-10.05	Fursey G.N, Russia Field Emission Microscopy, Spectroscopy, Scanning Electron Microscopy And Field Emission Phenomena From Graphen-Like Structures
IL	10.05-10.25	D. Vijayaraghavan, India Aggregates of Single-Walled Carbon Nanotube Bundles In A Surfactant Solution
IL	10.25-10.45	Gurumurthy Hegde, India Cost Effective, Catalyst Free Carbon Nanospheres From Biowaste Materials: Synthesis, Characterization And Applications
IL	10.45-11.05	Ashok Kumar, India Study on Structural and Magnetic Properties of Mg ²⁺ ion Doped ZnFe ₂ O ₄ Ferrite Nanoparticles Synthesized by sol-gel Method
IL	11.05-11.25	Selestin Raja, India An Emulsion of Pigmented Nanoceria: As Antioxidant Cosmetic
IL	11.25-11.45	Pawan S. Rana, India Enhanced Photocatalytic Performance of WO ₃ Nanoflowers Towards Degradation of Methylene Orange
IL	11.45-12.05	Modhera Bharkat Kumar K, India Synthesis and Characterization of SAPOs Nanomaterial from Aqueous and Non-aqueous Media
	Microscopy for Biology-III (Chairpersons: Mzia G. Zhvania , Georgia & Sandip Kumar Dhara, India)	
IL	12.05-12.25	Sareesh Naduvil Narayanan, India Morphological Analysis of Amygdala After Chronic Exposure To 900 Mhz Radiation In Rats

IL	12.25-12.45	P D Gupta, India In vivo vs In vitro imaging: Whole organism to Macro molecules
SIL	12.45-12.55	Shamba Gupta, India The Essential Protein Sepf of Mycobacteria Interacts With Ftsz And Regulates Cell Growth And Division
	12.55-14.00	Lunch Break
	Microscopy for Biomedical Applications (Chairpersons: Noriaki Takagi, Japan & Sareesh Naduvil Narayanan, India)	
IL	14.00-14.20	Francis B Fernandez, India Living Fibres : Evaluating Bioceramic Fibres via Microscopy for Biomedical Applications
IL	14.20-14.40	P. Ajmal Koya, India Effect of Polymers on the Aggregation Behavior of Cationic Amphiphilic Drug Imipramine Hydrochloride
IL	14.40-15.00	Shyam Kumar Vootla, India Fabrication And Characterization Of Conductive Conjugated Polymers/ Antherea Mylitta Silk Fibroin Composite Fibers For Biomedical Application
	Microscopy for Thin Films (Chairpersons: Fursey G.N, Russia & Ashok Kumar, India)	
IL	15.00-15.20	R.Chandramohan, India Morphological Variations In Metal Oxide Based DMS Thin Films Grown by SILAR Method
SIL	15.20-15.30	Chougale Umesh Mahadev, India Synergetic Effect of Electron Irradiation On The Supercapacitive Properties of Electrodeposited Iron Oxide Thin Films
SIL	15.30-15.40	Lohar Gaurav Mahadev, India Optical Properties of Electrochemical Synthesis of Ni Doped Znse Thin Film
SIL	15.40-15.50	Arun Augustin, India Effect of microstructure on the contact angle of antimicrobial copper thin film coatings
	15.50-16.00	Tea Break
	Microscopy for Nano-IV (Chairpersons: D. Vijayaraghavan, India & Modhera Bharatkumar K, India)	
IL	16.00-16.20	Poonam Gaur, India Comparison of third order nonlinearity in CdSe nanoparticles using nanosecond, picosecond and femtosecond lasers
SIL	16.20-16.30	G. Vidhya, India Microwave Irradiation Synthesis of 3D Flower-Like Hydroxyapatite Structure
SIL	16.30-16.40	Dimple Sharma, India Intensity Dependent Two Photon Absorption in Doped and Undoped ZnS Quantum Dots Using Nano and Picosecond Z-scan
SIL	16.40-16.50	Raghvendra A Bohara, India Synthesis, Colloidal Stability And Biocompatibility Evaluation of Co-Zn Ferrite Nanoparticles: A Potential Material For

		Magnetic Fluid Hyperthermia Treatment For Cancer
SIL	16.50-17.00	Sudhir Shende, India Mycosynthesis Of Copper Nanoparticles From Aspergillus Flavus: A Green Approach
SIL	17.00-17.10	T. Dhanasekaran , India One-Step Hydrothermal Synthesis of Al Decorated Manganese Oxide: Characterization, And Photocatalytic Degradation of Malachite Green
SIL	17.10-17.20	S. Vijayakumar, India Synthesis, Characterization, Anti Biofilm and Ecotoxicological Evaluation of Biopolymer Based Silver Nanoparticles
SIL	17.20-17.30	A.K. Sivadasan, India The Role of Purcell Effect in The Photoluminescence Spectra of Single Algan Nanowire
		Microscopy for Ceramics /Polymers (Chairpersons: R.Chandramohan, India & Poonam Gaur, India)
IL	17.30-17.50	Saikat Acharya, India Dynamic Mechanical Behaviour of Ceramics And Polymers Under High Strain Rate Compressive Loading
IL	18.00-18.20	Jyotishkumar Parameswaranpillai, India Morphology And Phase Separation In Epoxy/Rubber, Epoxy/Thermoplastic, And Epoxy/Block Copolymer Systems
SIL	18.20-18.30	S. Venkatesh, India Silver Nitrate Grafted Polypyrrole Micro-Particles
		Microscopy for Biology -IV (Chairpersons : Orsolya Kántor, Hungary & Saikat Acharya, India)
IL	18.30-18.50	Radha Prasanna, India Integration of Microscopic Approaches for Improved Understanding of Cyanobacteria-Plant Interactions And Develop Better Strategies For Effective Nutrient And Pest Management In Agriculture
SIL	18.50-19.00	Waseem Feeroze Bhat Distinct Effects of Cu ²⁺ , Fe ³⁺ and Zn ²⁺ on Amyloid Fibril Formation of Goat Brain Cystatin (GBC) at Low pH".
SIL	19.00-19.10	Sheraz Ahmad Bhat, India Purification And Detailed Biochemical Characterization Of A Cystatin-Like Cysteine Proteinase Inhibitor From Cicer Arietinum (Chick Pea)
		Tomography (Chairpersons: Orsolya Kántor, Hungary & Saikat Acharya, India)
IL	19.10-19.30	Bernard Deconihout, France Atom Probe Tomography. 3D Imaging Of Materials At The Atomic Scale
		Microscopy: Instrumentation& Techniques (Chairpersons: G.K. Menon, USA & Francis B Fernandez, India)
IL	19.30-19.50	Saroj Arora, India Microscopes: A Technique of the Past Changing the Future
IL	19.50-20.10	V.V. Kazmiruk, Russia New line of low voltage e-beam tools for fast prototyping and low and medium volume manufacturing
		Electrochemistry/ Fuel Cells-II (Chairpersons: Shyam Kumar Vootla, India & Pawan S. Rana, India)

IL	20.10-20.20	Ashis Kumar Satpati, India Investigation of Capacitance And Charge Transport Processes In Supercapacitor Materials Using Scanning Electrochemical Microscopy
SIL	20.20-20.30	K. Rajesh, India Electrochemical Sensing of Chlorophenol Using Graphene-SnO ₂ Modified Glassy Carbon Electrode
	20.30-21.00	CONCLUDING SESSION