

Contents

5th November 2016 (Saturday)

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Schedule of iCAMMP-iv, 2016

5th November 2016 (Saturday)

8:00 AM – 9:00 AM	Registration and Breakfast
9:00 AM – 9:30 AM	Inaugural function
9:30 AM – 11:00 AM	Down the memory lane: Lectures by Prof. S.K. Roy, Prof. K. K. Roy, Prof. S. K. Pabi and Prof. M. Chakraborty
11:00 AM – 11:15 AM	High Tea
11:15 AM – 11:30 AM	Inauguration of poster session and Photo session
11:30 AM – 1:15 AM	1 st Session
1:15 PM – 2:15 PM	Lunch
2:15 PM – 4:15 PM	2 nd Session
4:15 PM – 4:30 PM	Tea Break
4:30 PM – 6:30 PM	3 rd Session
6:30 PM – 7:30 PM	Felicitation ceremony
7:30 PM – 9:30 PM	Dinner

5th November 2016 (Saturday) Registration & Inaugural session

Duration				
01:00	08:00	09:00	Registration & Breakfast	Vikramshila foyer
00:30	09:00	09:30	Inauguration	Kalidas Auditorium
01:30	09:30	11:00	Memory down the lane	Kalidas Auditorium
00:15	11:00	11:15	High Tea	Vikramshila foyer

Schedule: Advances in characterization of microstructure and texture

5th November

Duration	Time		Speaker	Institute	Title of presentation
0:15	11:15	11:30	Poster Inauguration, photo session		
				Session Chair: Prof. Satyam Suwas	
			Ms. Shanta Chakrabarty	Dept. of Metallurgical Engineering and Material Science, IIT Bombay	Mechanism Of Deformation Twin Formation In Austenitic Stainless Steel
			Ms. Nabanita Biswas	Process technology Group, Tata Steel	Effect of micro-texture on the swelling behavior of iron ore pellets
			Mr. Biraj Kumar Sahoo	Scientist, Materials science and technology division, CSIR- NML, INDIA	Microstructure and texture evolution in high Si (3.2 wt%) electrical Steel sheet during thermo- mechanical processing
			Ms. Soumita Mandal	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Microstructure and texture evolution during uniaxial compression of CP Titanium

Duration	Time		Speaker	Institute	Title of presentation
1st Session: Session Chair - Prof. R K Ray					
0:30	11:30	12:00	Prof. K Chattopadhyay	Dept of Materials Engineering, IISc, Bangalore 560012, India	Can we develop high temperature aluminium alloys?
0:30	12:00	12:30	Prof. I Samajder	Dept of Metallurgical Engineering and Materials Science, IIT Bombay, India	Exploring the Unexplored: Microtexture Studies in Conjunction with Other Tools
0:25	12:30	12:55	Prof. Sushil Misra	Dept. of Mechanical Engineering, IIT Bombay, Powai, Mumbai- 400 076, India	Microstructural Investigation of Deformation induced annealing twin growth in austenitic 316SS
0:15	12:55	13:10	Mr. Anish Karmakar	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Effect of isothermal holding temperature on the precipitation hardening in Vanadium-microalloyed steels with varying carbon and nitrogen levels
1:00	13:15	14:15	LUNCH		

Duration	Time	Speaker	Institute	Title of presentation	
2nd Session: Session Chair - Prof. K Chattopadhyay					
0:30	14:15	14:45	Prof. Jerzy Szipunar	Dept. of Mechanical Engineering, University of Saskatchewan, Saskatoon, SK S7N 5A9, Canada	Microstructure-Based Modeling Of Failure In Textured Polycrystalline Materials
0:30	14:45	15:15	Prof. Satyam Suwas	Dept. of Materials Engineering, Indian Institute of Science, Bangalore 560012, India	Texture dependence of structural and function properties
0:25	15:15	15:40	Prof. Phaniraj	Dept. of Materials Science and Engineering, Seoul National University	Estimating precipitation strengthening in high strength steel using SANS measurements
0:25	15:40	16:05	Dr. Satyaveer Singh	Institute for Frontier Materials (IFM), Deakin University, Australia	Influence of process parameters on deformation texture and microstructure development in asymmetric rolled plane low carbon steel

Duration	Time		Speaker	Institute	Title of presentation
0:15	16:05	16:20	Dr. Jiten Das	Defence Metallurgical Research Laboratory, Hyderabad, India	Effect of thermo-mechanical processing on microtexture and mechanical properties of a tungsten heavy alloy
0:10	16:20	16:30	TEA		
3rd Session: Session Chair- Prof. Jerzy Szpunar					
0:30	16:30	17:00	Prof. R K Ray	MN Dastur School of Materials Science and Engineering, IIST Shibpur, India	Textures Microstructures and Grain Boundaries
0:25	17:00	17:25	Prof. Joysurya Basu	Dept. of Metallurgical Engineering, IIT (BHU), Varanasi - 221005, UP, India	Single Atom Chemistry Through High Resolution Imaging
0:25	17:25	17:50	Dr.Partha Ghoshal	Defence Metallurgical Research Laboratory, Kanchanbagh, Hyderabad, India	Advanced Characterization of Copper Oxide and Al alloy using In-situ Hot Stage Microscopy

Duration	Time		Speaker	Institute	Title of presentation
0:25	17:50	18:15	Dr. Nilesh Gurao	Dept. of Materials Science and Engineering, IIT Kanpur, India	In-situ electron backscatter diffraction studies to decipher micro-mechanisms of deformation in commercially pure titanium during load reversals
0:15	18:15	18:30	Mr.Jyoti Jha	Dept. of Mechanical Engineering, IIT Bombay, India	Hot working of Titanium alloy

Schedule: Prof. K. K. Ray Symposium on Deformation and Fracture

5th November

Duration	Time	Speaker	Institute	Title of presentation	
1st Session: Session Chair: Prof KK Ray					
0:30	11:30	12:00	Dr. S. V. Kamat	DMRL, Hyderabad	MIXED MODE I/ III FRACTURE TOUGHNESS BEHAVIOUR IN MATERIALS
0:30	12:00	12:30	Dr. N. Eswara Prasad	DMSRDE, Kanpur	Functional Engineering Materials: Some Select Perspectives
0:20	12:30	12:50	Dr. Dehi Pada Mandal	CSIR-AMPRI, Bhopal	Quasi-static and Dynamic Compressive Deformation Behaviour of Highly Porous Closed Cell Hybrid Aluminium Foams
0:20	12:50	13:10	Prof. Pravash Chandra Chakrabarti	Jadavpur University, Kolkata	Research Experience on Monotonic and Cyclic Deformation Behavior of Metals and Alloys: A Tribute to Prof. K.K.Ray

Duration	Time	Speaker	Institute	Title of presentation	
2nd Session: Session Chair: Prof KK Ray					
0:30	14:30	15:00	Dr. A.K. Bhaduri	IGCAR, Kalpakkam	Fracture Mechanics Based Evaluation of High Temperature Materials for Advanced Ultra Super Critical Power Plant Applications
0:20	15:00	15:20	Dr. Dinesh Srivastava	BARC, DAE, Mumbai	Hydride assisted degradation of Fracture behaviour of Zr-alloy Pressure Tubes used in Indian PHWRs
0:20	15:20	15:40	Prof. N. Narasaiah	NIT Warangal	Effect of aging on mechanical properties of 11Cr-10Ni precipitation hardened martensitic stainless steel
0:10	15:40	15:50	M.K. Mishra	Department of Metallurgical Eng. and Materials Sci., IIT Bombay	Analysis of high temperature flow behaviour of 2507 super duplex stainless steel using processing map and constitutive equation

Duration	Time		Speaker	Institute	Title of presentation
0:10	15:50	16:00	Minal Shah	CSIR-National Metallurgical Laboratory, Jamshedpur	Design of Air Cooled Bainitic Steels by optimisation of alloy elements
0:10	16:00	16:10	Balbir Singh	RDCIS, SAIL, Ranchi	Assessing Fatigue Strength of Rail Steels through Modeling of S-n Curves
0:10	16:10	16:20	Sujith Kumar S	Dept of MME, IIT Kharagpur	Effect of Heat Treatment on the Deformation Characteristics of NiTi alloy
3rd Session: Session Chair: Dr. A.K. Bhaduri					
0:30	16:30	17:00	Dr. Shashi Bhushan Singh	NMRL, DRDO, Ambarnath	Advancement in Marine Metallurgy and Materials
0:20	17:00	17:20	Prof. Somjeet Biswas	IIT Kharagpur	Free end torsion test of Mgalloys
0:20	17:20	17:40	Prof. S. Mandal	IIT Kharagpur	Role of Aluminum in enhancing superplasticity in multicomponent Mn-Si-Cr-Al ultrahigh carbon steel
0:20	17:40	18:00	Dr. K. Sadananda	Naval Research Lab., Washington D.C, USA	Subcritical Crack Growth and Crack Tip Driving Forces in Relation to Material Resistance

Duration	Time		Speaker	Institute	Title of presentation
0:20	18:00	18:20	Mr. S. K. Bishnu	Instron India, A Division of ITW India Limited	About the equipments for Mechanical Testing from Instron, A Division of ITW Industries Pvt Ltd.
0:10	18:20	18:30	Ankita Bhattacharya	Department of MME, IEST, Shibpur	Evaluation of low cycle fatigue behaviour of a microalloyed steel with dual-phase microstructures by energy-based approach
0:10	18:30	18:40	Swati Suman	Indian Institute of Technology, Kharagpur	Microstructure-Low cycle fatigue behaviour correlation in Ti-5Al-5Mo-5V-3Cr alloy

Schedule: Glass, Ceramics, Composites and High Temperature Materials

5th November

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	11:00	11:15	Ms. Sudha Bharati	IIT BHU Varanasi	Advanced Food Packaging Films based on Polymer Nanocomposite
0:15	11:15	11:30	Devyani Bajpai	IIT BHU Varanasi	Intrinsically conducting polymer (ICP)/ Thermoplastic composites as electromagnetic interference (EMI) shielding materials
Duration	Time		Speaker	Institute	Title of presentation
1st Session: Session Chair: Dr. J. J. Reddy					
0:30	11:30	12:00	Prof. Vikram Jayaram	IISc Bangalore	Reactive densification for low temperature processing of transition metal carbide-borides-nitrides
0:20	12:00	12:20	Dr. Uday Kumar	MSD, CSIR-NAL, Bangalore	Non-oxide Continuous Fibre Reinforced Ceramic Matrix Composites (CFCC) for strategic Applications
0:15	12:20	12:35	Prof. Swapan Kumar Karak	NIT Rourkela	Mechanical and microstructural characterization of ZrB ₂ -B ₄ C-Mo cermets synthesized by ball milling

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	12:35	12:50	Mr. Atanu Chaudhuri	IISc Bangalore	Understanding the deformation behaviour and evolution of microstructure during hot deformation of Mo-TZC
0:15	12:50	13:05	Mr. Krishna Manwani	IIT Gandhinagar	Thermodynamic analysis for the growth of ultra-thin oxide on Al-Si substrate
1:00	13:15	14:15	LUNCH BREAK		
2nd Session: Session Chair: Prof. K. K. Ray					
0:30	14:15	14:45	Prof. Bikramjit Basu	IISc Bangalore	ZrB ₂ -SiC based thermal protection system for hypersonic space vehicles: Experimental and Computational analysis
0:20	14:45	15:05	Prof. Kantesh Balani	IIT Kanpur	Effect of CNT addition on Corrosion Resistance of ZrB ₂ -20SiC Based Ultra-High Temperature Ceramic Composites under Plasma-Arc Jet Exposure
0:20	15:05	15:25	Dr. T. S. R. Ch. Murthy	BARC Mumbai	Tribology study of Borides and Carbides
0:20	15:25	15:45	Dr. Sudip Dey	NIT Silchar	A meta-law for functionally graded materials based on low velocity impact parameters
0:20	15:45	16:05	Dr. Sudip Dey	NIT Silchar	Free vibration of functionally graded plates – A comparative study
0:15	16:15	16:30	TEA BREAK		

Duration	Poster Session	Presenter	Institute	Title of the poster	
3rd Session: Session Chair: Prof. Siddharta Das					
0:20	16:30	16:50	Dr. Sanjib Majumdar	BARC Mumbai	Development of molybdenum based alloys for high-temperature applications
0:20	16:50	17:10	Dr. Uday Kumar	MSD CSIR-NAL Bangalore	Effect of Boron-bearing SiC seal coating of CVI generated Cf/SiC composites with (PyC/SiC) _{n=4} multilayer interface on high temperature Tensile properties
0:20	17:10	17:30	Dr. Bharat B. Panigrahi	IIT Hyderabad	MAX Phase Based High Temperature Ceramics
0:15	17:30	17:45	Dr. Arindam Paul	NIT Rourkela	Effect of composition and sintering parameters on densification and mechanical behaviour of alumina-borosilicate glass composite
0:20	17:40	18:00	Mr. P. Rama Rao	CSIR-CGCRI Kolkata	Synthesis and characterization of Ti ₂₀ Zr ₂₀ Cu ₁₀ Ni ₅₀ Metallic Glasses
2:00	19:00	21:00	Dinner		

Prof. S.K. Pabi symposium on Nano-materials for Structural, Functional and Energy Application

5th November

Duration	Poster Session	Presenter	Institute	Title of the poster
1st Session: 11:30 am to 1:10 pm; Session Chair: Professor S.K. Pabi, IIT Kharagpur				
0:30	11:30	12:00	Prof. B.S. Murty IIT Chennai	Nanocrystalline materials by top-down approach: My collaboration with Prof. S.K. Pabi and beyond
0:20	12:00	12:20	Prof. Ravi Sankar Kottada IIT Chennai	Thermal stability and high temperature deformation behaviour of nanocrystalline CoCrFeNi high entropy alloys (HEA)
0:20	12:20	12:40	Dr. R. Vijay ARCI, Hyderabad	Research on Nanomaterials in ARCI, Hyderabad: An Overview
0:15	12:40	12:55	Prof. Supriya Bera NIT Durgapur	Ga micro-alloying to improve room temperature plasticity of Ti-based bulk glassy alloys
0:15	12:55	13:10	Ram S. Maurya IIT Kharagpur	Comparative study of Al based bulk amorphous alloy synthesized via mechanical alloying and spark plasma sintering
1:00	13:15	14:15	Lunch	

Duration	Poster Session	Presenter	Institute	Title of the poster	
2nd Session: 2:20 pm to 4:10 pm; Session Chair: Professor K. Das, IIT Kharagpur					
0:30	14:20	14:50	Prof. Sarit Kr Das	IIT Ropar	Thermal, electrical & magnetic properties of graphene nanofluids
0:30	14:50	15:20	Prof. Tarashankar Pal	IIT Kharagpur	Raman effect enhanced by way of nanofabrication
0:20	15:20	15:40	Dr. Dibyendu Chakravarty	ARCI, Hyderabad	Nanostructured materials for structural and functional applications by spark plasma sintering (SPS)
0:15	15:40	15:55	Prof. Surhit Mula	IIT Roorkee	Effect of Nb addition on structure and thermal stability of nanocrystalline Fe-Cr alloys developed by mechanical alloying
0:15	15:55	16:10	Prof. Anshuman Patra	NIT Rourkela	Fabrication and characterization of nano-Y2O3 dispersed mechanically alloyed W-Ni-Nb for high temperature applications
0:15	16:15	16:30	Tea break		

Duration	Poster Session	Presenter	Institute	Title of the poster	
3rd Session: 4:30 pm to 6:20 pm; Session Chair: Dr. Dibyendu Chakravarty, ARCI					
0:30	16:30	17:00	Prof. Amitava Basumallick	IEST, Shibpur	Microstructural parameters and its effect on the mechanical properties of Al/Al ₃ Ti nanocomposite - An Assessment
0:20	17:00	17:20	Vijay Mishra	Kanthal, Sandvik India	Keep in shape when the heat is on
0:14	17:20	17:34	Prof. Syed Nasimul Alam	NIT Rourkela	Alumina-based nanocomposites using graphite nanoplatelets as reinforcement
0:14	17:34	17:48	Lavish K Singh	IIT Kharagpur	The effect of functionalization on microstructure and mechanical properties of MWCNT reinforced Al nanocomposite synthesized by SPS
0:14	17:48	18:02	V.M. Suntharavel Muthaiaha	IIT Roorkee	Thermal stability and mechanical properties of spark plasma sintered Fe-Cr-Y alloys prepared by mechanical alloying

Duration	Poster Session		Presenter	Institute	Title of the poster
0:14	18:02	18:16	Soumya Mukherjee	Jadavpur University	Effect on optical and ferroelectric properties by Zn doping on nanocrystalline BiFeO ₃
0:14	18:16	18:30	Priyakshree Borthakur	CSIR-NEIST, Jorhat	Investigations of peroxidase mimic activity of CoS/rPGO nanocomposites towards heavy metal ion detection
1:00	18:30	19:30	Felicitation ceremony		
2:00	19:30	21:30	Dinner		

Schedule: Prof. M. Chakraborty Symposium on "Advanced techniques in Materials Processing"

5th November

Duration	Poster Session		Presenter	Institute	Title of the poster
1st Session: Session Chair					
0:15	11:30	11:45	Dr Seshadev Sahoo	Sikasha 'O' Anusandhan University, Bhubaneswar	Numerical study on heat transfer in Direct Metal Laser Sintering Process
0:15	11:45	12:00	Prof Amit Arora	IIT Gandhinagar	Heat Transfer and Material Flow Numerical Modeling for Joining of Dissimilar Materials 6061-T6 and AZ31 Mg alloy
0:15	12:00	12:15	Mr Sarathkumar L	IIT Madras	Ultrashort pulse computational modeling of Laser Interaction with hard dental tissue
0:15	12:15	12:30	Mr Praveen Tumkur	NIT, Karnataka	Numerical simulation of shot peening process on ECAP AM80 Alloy
0:15	12:30	12:45	Mr Vinothkumar Paramasivam	IIT Madras	Thermomechanical Modeling For Fused Deposition Additive Process
1:30	12:45	14:15	Lunch		

Duration	Poster Session		Presenter	Institute	Title of the poster
2nd Session: Session Chair					
0:30	14:15	14:45	Dr Tarasankar Mahata	Bhabha Atomic Research Centre	Processing of materials for making solid oxide electrolyser cell for generation of hydrogen
0:20	14:45	15:05	Prof Prasada Rao Ak	Alliance University, Bengaluru	Un-diluted Recycling of Aluminium Scrap containing high-Fe impurity
0:20	15:05	15:25	Dr Geetha Priyadarshini Badhirappan	PSG Institute of Advanced Studies	Processing of nanocrystalline materials using magnetron sputtering
0:15	15:25	15:40	Dr Neha Gupta	NIT Raipur	NANO-RED MUD FILTERS TO CONVERT CO INTO CO ₂
0:15	15:40	15:55	Mr Kasimuthumaniyan S	NIT JAMSHEDPUR	Synthesis of in situ Fe-TiC composite through thermal plasma reduction of titania rich slag
0:15	15:55	16:10	Mr Susanta Kumar Pradhan	IEST Shibpur	Fabrication of in-situ Fe-aluminides reinforced Al-matrix composites by stir-casting method

Duration	Poster Session		Presenter	Institute	Title of the poster
0:20	16:10	16:30	Tea		
0:15	16:30	16:45	Mr Hirok Jyoti Borah	CSIR- North East Institute of Science & Technology	Adsorptive separation of Resveratrol from Artocarpus Lakoocha Roxb using PVDF Membrane
0:15	16:45	17:00	Mr. Amit Kumar	ISM DHANBAD	A comparative study of Die-sinking EDM process under different dielectric condition
0:15	17:00	17:15	Ms Athira Gopinath	BITS Pilani	Sustainable material processing of sugarcane bagasse

Schedule: Symposium on Modern Trends in Extractive Metallurgy

5th November

Duration	Time		Speaker	Institute	Title of presentation
1st Session: Session Chair: Prof. P. K. Sen, IIT Kharagpur					
0:30	11:30	12:00	Mr. Anand Sen	Tata Steel, Jamshedpur	Research to Reality-Connecting today with tomorrow
0:30	12:00	12:30	Prof. Seshadri Seetharaman	Royal Institute of Technology, Stockholm, sweden	Direct Alloying and Alternate Solutions for Eco-Friendly Steelmaking
0:25	12:30	12:55	Prof. Dinabandhu Ghosh	Department of Metallurgical and Materials Engineering Jadavpur University, India	Construction of the Stability Diagram of the System Fe-C-O with the Help of a C/Fe ₂ O ₃ vs T Plot and the Related Issue of Direct and Indirect Reduction
0:20	12:55	13:15	Dr. Sanjay Prasad	MEF Division, CSIR-National Metallurgical Laboratory, Jamshedpur	Role of sodium carbonate on titanium dioxide production from weathered ilmenite

Duration	Time		Speaker	Institute	Title of presentation
2nd Session: Session Chair: Prof. Seshadri Seetharaman, KTH, Stockholm					
0:30	14:15	14:45	Prof. H. S. Ray	Indian Association of Quality, productivity and Reliability(IAQPR), Kolkata	Why Indian R &D has a poor record in Innovation
0:30	14:45	15:15	Prof. K. A. Natarajan	Department of Materials Engineering, Indian Institute of Science, Bangalore	Biotechnological Innovations in Gold Mining and Extraction from Primary and Secondary Resources
0:30	15:15	15:45	Prof. G. S. Gupta	Department of Materials Engineering, Indian Institute of Science, Bangalore	Recent trends in iron and steelmaking
0:25	15:45	16:10	Prof. Xu Gao	Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan	Removal of arsenic from polluted water by steelmaking slag
3rd Session: Session Chair: Prof. H. S. Ray					
0:30	16:30	17:00	Prof. Shin-ya Kitamura	Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan	Toward Sustainable Steelmaking Industry in India, Examples of Education and R&D Collaboration in Japan

Duration	Time		Speaker	Institute	Title of presentation
0:30	17:00	17:30	Prof. A. Ghosh	Retired Professor, IIT Kanpur	Ironmaking Steelmaking Revisited
0:25	17:30	17:55	Prof. A. K. Singh	Dept of MME, IIT Kanpur	Use of mathematical models for improving design and operating set points of ladle furnace
0:25	17:55	18:20	Dr. Golap Md. Chowdhury	RDCIS , SAIL, Ranchi	Development of Induration Cycle for Pelletization of Goethite Ore
0:20	18:20	18:40	Mr. Binay Kumar	Dept of MME, IIT Kharagpur	Thermodynamic modeling of Rotary Hearth Furnace

Schedule: Prof. S. K. Roy Symposium on Surface Engineering & Corrosion

5th November

Duration	Poster Session	Presenter	Institute	Title of the poster
1st Session: Surface Engineering I; Session Chair: Dr. S. Dash, IGCAR, Kalpakkam				
0:30	11:30	12:00	Dr. S C Sharma	VSSC, Trivandrum Engineering of Surfaces for Advanced Space Applications (Surface Engg for Space Application)
0:20	12:00	12:20	Dr. Atanu Banerjee	Tata Steel, Jamshedpur A new coating strategy on steel to improve steel-rubber adhesion
0:20	12:20	12:40	Dr. Bhaskar Poul	BARC Studies on formation of silicide based oxidation resistant coatings over molybdenum based alloys
0:15	12:40	12:55	Anand Jesuraj	SatyaBhama Chennai Influence Of Substrate Temperature On The Microstructure And Nanomechanical Properties Of Electron Beam Evaporated Rare Earth Zirconate (GZ) Films
0:15	12:55	13.:10	Sourabh Shukla	VNIT Nagpur Effect Of Heat Treatment And Intercrystalline Corrosion Resistance On Low Nickel Austenitic Stainless Steel
1:05	13:10	14:15	LUNCH	
2st Session: Session Chair: Prof P. K. Mitra, Jadavpur University				
0:30	14:15	14:45	Dr. Rani George	IGCAR, Kalpakkam Development of Corrosion Resistant and Antifouling Surfaces For Seawater Application

Duration	Poster Session	Presenter	Institute	Title of the poster	
0:30	14:45	15:15	Prof. S. Chatterjee	IIEST Shibpur	Development of micro-alloyed ultrahigh strength steel
0:15	15:15	15:30	Jageswar Verma	VNIT Nagpur	Microstructure, Mechanical And Corrosion Behaviour Of Duplex And Austenitic Electrodes On Dissimilar Joint
0:15	15:30	15:45	Rakesh Ranjan	NIT Surthakal	Investigation Of Bio Corrosion Properties Of As Cast Mg-Zn-Gd Alloy In A Simulated Body Fluid
0:15	15:45	16:00	Partha Dhule	IIT Kharagpur	Effect Of Austenitizing And Tempering Temperature On Microstructure, Mechanical And Corrosion Properties Of Titanium Modified 9Cr Steel
0:15	16:00	16:15	Turin Dutta	IIT Bhubaneswar	Corrosion And Characterization Of Structural Materials For Deep-Sea Well Environments In Oil And Gas Applications
0:15	16:15	16:30	TEA		

Duration	Poster Session	Presenter	Institute	Title of the poster	
3rd Session: Session Chair: Prof. S. Chatterjee, IEST Shibpur					
0:30	16:30	17:00	Prof. U. K. Chatterjee	IEST Shibpur	Metallic Materials for Body Implants (Bio Material)
0:30	17:00	17:30	Prof. V.S. Raja	IIT Bombay	Eco-friendly pre-treatment for Automobile Coatings
0:20	17:30	17:50	Prof Amit Biswas	NIT Rourkela	DEVELOPMENT OF TiO ₂ NANOTUBES ON TITANIUM IMPANTS SURFACE TO IMPROVE OSSEOITEGRATION
0:15	17:50	18:05	Renu Kumari	NIFT Ranchi	Studies On Hydroxyapatite(HA)/TiO ₂ Composite Coating On Titanium Alloy (Ti-6Al-4V)
0:15	18:05	18:20	Sahley Saha	NIT Rourkela	Surface Modification Of Titanium Implants With Antimicrobial Coatings To Prevent Biofilm Formation

Schedule: Symposium on Computational Materials Science

5th November

Duration	Time		Speaker	Institute	Title of presentation
1st Session:					
0:30	11:30	12:00	Prof.B.K. Dhindaw	Indian Institute of Technology Bhubaneswar	Transport Modeling of Solidification Processing
0:30	12:00	12:30	Prof. Deepak Gupta	Indian Institute of Technology Kanpur	Continuum-density functional theory multiscale modeling of material systems
0:20	12:30	12:50	Dr. Purbarun Dhar	Indian Institute of Technology Ropar	Modeling of Graphene based Nanofluids
0:20	12:50	13:10	Dr. Jeevanjyoti Chakroborty	Dept of Mechanical Eng, IIT Kharagpur	Multi-scale modelling of lithium-ion battery
1:05	13:10	14:15	LUNCH		
2st Session:					
0:30	14:15	14:45	Prof. A.K.Singh	Indian Institute of Technology Kanpur	Effect of solidification macro and micro-structure on product quality
0:30	14:45	15:15	Prof. Phanikumar	Indian Institute of Technology Madras	Phase Field Modeling of Solidification Process

Duration	Time		Speaker	Institute	Title of presentation
0:30	15:15	15:45	Prof. Asim Tiwari	Indian Institute of Technology Bombay	Modeling of Microstructural Evolution during Solidification
0:20	15:45	16:05	Prof. Amitesh Kumar	National Institute of Foundry & Forge Technology	Theoretical and Experimental Study of Structure Formation in Binary Al–Cu eutectic at Different Cooling Rates Amitesh Kumar
0:00					
0:25	16:05	16:30	TEA		
3rd Session:					
0:30	16:30	17:00	Prof. Kishalay Mitra	Indian Institute of Technology Hyderabad	Is Optimization Time-feasible with Computationally Expensive Models?
0:30	17:00	17:30	Professor Shubhabrata Datta	SRM University	Materials informatics: the computational intelligence based approach
0:20	17:30	17:50	Prof. Manvendra Tripathi	National Institute of Technology Raipur	Predictable Metallic Glass Forming Ability Expression Development
0:00					
0:00					

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6th November 2016 (Sunday)

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Schedule of iCAMMP-iv, 2016

6th November 2016 (Sunday)

8:00 AM – 9:00 AM	Registration and Breakfast
9:00 AM – 10:45 AM	4 th Session
10:45 AM – 11:00 AM	High Tea
11:00 AM – 12:45 PM	5 th Session
12:45 PM – 1:15 PM	2 nd Poster session
1:15 PM – 2:15 PM	Lunch
2:15 PM – 4:15 PM	6 th Session
4:15 PM – 4:30 PM	Tea Break
4:30 PM – 6:30 PM	7 th Session
6:30 PM – 7:30 PM	Cultural program
7:30 PM – 9:30 PM	Dinner

Schedule: Advances in characterization of microstructure and texture

6th November

Duration	Time		Speaker	Institute	Title of presentation
4th Session: Session Chair - Prof. Brokemeier					
0:30	9:00	9:30	Dr. Muraleedharan	Director, Central Glass, Ceramic Institute, Kolkata, India	
0:25	9:30	9:55	Dr. Apu Sarkar	Mechanical Metallurgy Division, Bhabha Atomic Research Centre, Mumbai, India	Effect of hydrogen on creep behavior of zirconium alloy: a study using in situ synchrotron X-ray diffraction
0:25	9:55	10:20	Dr. Sushanta Kumar Panigrahi	Dept of Mechanical Engg, IIT Madras, India	Strategies to Reduce Tension-Compression Yield Asymmetry in Magnesium Alloys
0:25	10:20	10:45	Dr. Tetsuo Oikawa	JEOL Asia Pte Ltd., Singapore	Advanced Aberration-Corrected Analytical TEM/STEM from JEOL
0:15	10:45	11:00	TEA		

Duration	Time	Speaker	Institute	Title of presentation	
5th Session: Session Chair - Dr. Muraleedharan					
0:30	11:00	11:30	Prof. Karl Ulrich Kainer	Helmholtz-Zentrum Geestacht, Institute of Materials Research, Magnesium Innovation Centre, Germany	The Role of Texture Design in the Development of Cost-effective Magnesium Sheets
0:30	11:30	12:00	Prof. GVS Sastry	Dept. of Metallurgical Engineering, IIT (BHU), Varanasi, India	Influence of Rolling Temperature on Interstitial-free Steel produced by Cryorolling
0:25	12:00	12:25	Dr. Basudev Bhattacharya	R&D Division, Tata Steel Ltd. Jamshedpur – 831001	Texture Development During Cold Rolling and Annealing of an Austenitic Steel With High Manganese Content
0:25	12:25	12:50	Dr. Chiradeep Ghosh	R&D Division, Tata Steel Ltd. Jamshedpur – 831001	Importance of the determination of critical strains for the initiation of Dynamic Transformation and Dynamic Recrystallization
0:30	12:45	13:15	POSTER SESSION	Session Chair: Dr. Sandip Ghosh Choudhury	

Duration	Time	Speaker	Institute	Title of presentation
		Mr. Satyabrata Dhala	Dept of Mechanical Engineering, IIT Bombay, India	Orientation Dependence Response of Single Crystal Pseudoelastic NiTi Notched Tensile Samples Using Crystal Plasticity Approach
		Mr. Mukesh Kumar	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Study of phase transformation during low temperature aging, using Differential Scanning Calorimeter, in a Titanium alloy
		Mr. Prakash Chandra Goutham	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Microstructure and Texture evolution during Equal Channel angular extrusion of pure Magnesium
		Mr. Parichay Basu	Dept. of Mechanical Engineering, Jadavpur University, Kolkata, India	Morphological Characterisation of 20Mn-Mo-Ni55 Steel based on Color Etching validated through Microhardness

Duration	Time		Speaker	Institute	Title of presentation
			Mr. Vijendra Kumar	Dept. of Metallurgical & Materials Engg, IIT Kharagpur, India	Microstructure - Property Correlation of Metallic alloys
			Mr. S. K. Chourasiya	Dept of Metallurgical & Materials Engg, IIT Roorkee, Uttarakhand, India	Effect of cryorolling on microstructure and mechanical properties of spray formed Al-Si alloy
1:00	13:15	14:15	LUNCH		
6th Session: Session Chair: Prof. Karl Ulrich Kainer					
00:30	14:15	14:45	Dr. Maria Teresa Perez prado	IMDEA Materials Institute, C/ Eric Kandel, 2, 28906 Getafe, Madrid, Spain	Application of EBSD-assisted slip trace analysis to unravel the controversial plasticity of polycrystalline magnesium
00:30	14:45	15:15	Dr. Sandip Ghosh Choudhury	CSIR National Metallurgical Laboratory, Jamshedpur, 831007, India	Development of Texture in Nb-Si added low carbon high strength high formable steel
00:25	15:15	15:40	Dr. Chandan Mandal	Defence Metallurgical Research Laboratory, Hyderabad-500058, India	Development of 'Brass'-Texture in High Strength Aluminum Alloys: Stability and Associated Strength Anisotropy

Duration	Time		Speaker	Institute	Title of presentation
00:25	15:40	16:05	Dr. Pampa Ghosh	R&D Division, Tata Steel Ltd. Jamshedpur – 831001, India	Stabilising High Temperature Austenite Phase by Deformation in Two Phase Region
00:15	16:05	16:20	Mr. Rohit Mathew	Dept. of Metallurgical Engineering and Materials Science, IIT Bombay, India	Effect of current density, duty cycle and substrate on microstructure and texture development in pulsed electrodeposited copper
0:15	16:15	16:30	TEA		
7th Session: Session Chair - Prof. GVS Sastry					
0:30	16:30	17:00	Prof. Heinz Gunther Brokemeier	Institute of Materials Science and Engineering, TU Clausthal, Germany	Combined microstructure and texture investigation using hard X-rays by area detector measurements
0:25	17:00	17:25	Prof. Saibal Gupta	Dept. of Geology and Geophysics, IIT Kharagpur	A 500 million year old 'San Andreas Fault' in India : connecting India and Antarctica using textural and EBSD study of rocks

Duration	Time		Speaker	Institute	Title of presentation
0:25	17:25	17:50	Dr. Indrani Sen	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Role of microstructure on mechanical properties of ferrous and non-ferrous materials
0:25	17:50	18:15	Dr. Radhakanta Rana	Tata Steel, Wenckebachstraat 1, 1970CA IJmuiden, The Netherlands	Medium Manganese Steels: Microstructure Design and Analysis of Mechanical Properties
0:15	18:15	18:30	Ms. Monalisa Mandal	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Evolution of microstructure of mushy state rolled Al-4.5Cu-5TiB ₂ in-situ composite and its effect on the nano-indentation creep

Schedule: Prof. K. K. Ray Symposium on Deformation and Fracture

6th November

Duration	Time		Speaker	Institute	Title of presentation
4th Session: Session Chair: Prof AK Chakraborty					
0:25	9:00	9:25	Prof. Dr. G. Malakondaiah	NIT Warangal	ULTRAHIGH STRENGTH, HIGH FRACTURE TOUGHNESS LOW-ALLOY DMR-1700 STEEL FOR AEROSPACE APPLICATIONS
0:20	9:25	9:45	Prof. S. Sankaran	IIT Madras	Optimization of Nitrogen Content in 316LN SS Based on Cyclic Deformation and Fracture Behavior
0:20	9:45	10:05	Prof. Swarup Ghosh	IEST, Shibpur	Deformation and fracture behaviour of TWIP steel
0:20	10:05	10:25	Dr. S. Sivaprasad	NML, Jamshedpur	High strain rate deformation in automotive grade steels
0:10	10:25	10:35	Manjima Bhattacharya	CSIR-CGCRI	Nanomechanical Response across the Scratch Groove of Alumina

Duration	Time		Speaker	Institute	Title of presentation
0:10	10:35	10:45	Arya Chatterjee	Dept of MME, IIT Kharagpur	On the processing- microstructure- impact fracture behaviour of lath martensitic steel
5th Session: Session Chair: Dr. S. Tarafder					
0:25	11:00	11:25	Prof. A.K. Chakraborty	IIST, Shibpur	Initiatives in Ferrous Metallurgy Research – In Retrospect
0:25	11:25	11:50	Prof. Saradindu K. Roy	Jadavpur University, Kolkata	Research Contributions of Prof. K.K. Ray – A Personal View
0:20	11:50	12:10	Dr. B.K. Choudhary	IGCAR, Kalpakkam	Internal-State- Variable Based Modeling of Tensile and Creep Deformation of Tempered- Martensitic 9% Cr Steels
0:20	12:10	12:30	Prof. Kaushik Chattopadhyay	Indian Institute of Technology (Banaras Hindu University), Varanasi	Low cycle fatigue behaviour of nanostructured Ti- 6Al-4V subjected to ultrasonic shot peening
0:10	12:30	12:40	K.S.N. Satish Idury	Department of Metallurgical and Materials Engineering, V.N.I.T. Nagpur	Indentation response on different substrates for Zr67Cu33 Metallic glass

Duration	Time		Speaker	Institute	Title of presentation
0:10	12:40	12:50	Vinay Kumar	Departement of Civil engineering, IIT Kharagpur	Two-dimensional mesoscale compressive damage analysis of digital camera image of concrete
6th Session: Session Chair: Prof Saradindu Kumar Roy					
0:25	14:15	14:40	Professor Vakil Singh	Indian Institute of Technology (Banaras Hindu University), Varanasi	Unusual Fracture in Structural Materials
0:25	14:40	15:05	Prof. R.N. Ghosh	IIT Kharagpur	Structural Integrity Assessment of Engineering Components: Current Status & Future Prospect
0:20	15:05	15:25	Dr. Anoop K Mukhopadhyay	CSIR-CGCRI, Kolkata	Scale Dependent Deformation Mechanisms: A Journey from Single to Polycrystalline Alumina
0:20	15:25	15:45	Dr. K. Laha	IGCAR, Kalpakkam	Creep deformation and rupture behaviour of Cr-Mo-W steels and their weld joints

Duration	Time		Speaker	Institute	Title of presentation
0:10	15:45	15:55	Sudhagara Rajan	VIT University, Vellore; 2GE Power and Water, Bangalore	Effect of Shot peening on High Cycle Fatigue Life of Metastable Beta Titanium Alloy Ti-15V-3Cr-3Al-3Sn.
0:10	15:55	16:05	Vijayalaxmi Sonkamble	Metallurgical Eng and Material Sci Dept, IIT Bombay	An Application of Finite element method to find the effect of process Parameters on Burr formation in sheet metal blanking
0:10	16:05	16:15	S. Choudhury	Department of Mechanical Engineering, Jadavpur University	Estimation of Critical Fracture Energy, G _{fr} for Short Crack Growth using Cohesive Zone Model for RPV Steel 20MnMoNi55
7th Session: Session Chair, Prof RN Ghosh					
0:25	16:30	16:55	Prof. Atul K. Choksi	IISc Bangalore	Internal and External Size effects in plastic flow and failure

Duration	Time		Speaker	Institute	Title of presentation
0:20	16:55	17:15	Dr. R. Balamuralikrishnan	DMRL, Hyderabad	Quantitative analysis of clusters and their influence on yield strength in a model secondary hardening ultra-high strength steel with two different levels of Mo
0.20	17:15	17:35	Dr. Debdulal Das	IIST, Shibpur	Role of microstructure on cyclic deformation response of Al-Mg-Si alloy
0:20	17:35	17:55	Dr. Sharmilee Sarkar	International Industrial Springs	Common Causes of Spring Failures
0:10	17:55	18:05	S.Prakash	Dept of Mechanical Eng, College of Eng, Anna University, Chennai	MECHANICAL AND THERMAL BEHAVIOUR OF BANANA-JUTE FIBRE REINFORCED BASALT FIBRE LAMINATED COMPOSITE
0:10	18:05	18:15	K.Bhattacharyya	Dept of Mechanical Eng, Jadavpur University	Calibration of Weibull parameters with temperature from Master Curve
0:10	18:15	18:25	Jambeswar Sahu	Dept of Mechanical Eng, IIT Bombay	Size effect and micro-limit dome height forming test for microscale SS304 sheet

Schedule: Glass, Ceramics, Composites and High Temperature Materials

6th November

Duration	Poster Session	Presenter	Institute	Title of the poster	
4th Session: Session Chair: Prof. Rahul Mitra					
0:30	9:00	9:30	Dr. J. J. Reddy	DMRL Hyderabad	Spark Plasma Sintering of ZrB ₂ -SiC composite
0:20	9:30	9:50	Dr. R.V.Krishnarao	DMRL Hyderabad	Synthesis and Processing of ZrB ₂ -SiC and Cf-SiC based Composites
0:15	9:50	10:05	Mr. Nand Kishor Kumar	IIT Kharagpur	Effect of Zr addition on the oxidation behaviour of spark plasma sintered multiphase Mo-Si-B alloy at 700-800 °C
0:15	10:05	10:20	Ms. Bhavya Kumari	IIT Kharagpur	Effect of Fe addition on the initial stage of oxidation behaviour of multiphase Mo-Si-B alloy at 1150 °C
0:15	10:20	10:35	Mr. Nihal A. Singh	IIT Kharagpur	Effect of Zr addition on the initial stage of oxidation behaviour of multiphase Mo-Si-B alloy at 1150 °C
0:15	10:45	11:00	Tea Break		
5th Session: Session Chair: Prof. Parag Bhargava					
0:30	11:00	11:30	Prof. Dipankar Banerjee	IISc Bangalore	Novel High Temperature, High Strength Eutectic Intermetallics
0:20	11:30	11:50	Prof. N. V. Ravi Kumar	IIT Madras	Small-scale inelastic deformation in high temperature resistant Si-based precursor derived ceramics

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	11:50	12:05	Mr. Nitish Bibhanshu	IISc Bangalore	High temperature deformation behavior of dual phase Titanium Aluminide
0:15	12:05	12:20	Mr. Syamsai Ravuri	VIT University Vellore	Molybdenum carbide
0:15	12:20	12:35	Mr. Prosanta Biswas	NIT Durgapur	Microstructure, mechanical properties and hardness of Al-5Mg alloy containing Al ₄ Sr reinforced phase
0:15	12:35	12:50	Mr. Rajneesh Verma	MNNIT Allahabad	Study on the mechanical properties of short kenaf fiber reinforced HDPE polymer composites
0:15	12:50	13:05	Mr. Devansh Sharma	IIT BHU	Study On Mechanical and Thermal Properties Of Polyether imide(PEI) and Silicone Rubber Blend
1:00	13:15	14:15	LUNCH BREAK		
6th Session: Session Chair: Prof. Karabi das					
0:30	14:15	14:45	Prof. Parag Bhargava	IIT Bombay	Microstereolithography of ceramics
0:20	14:45	15:05	Prof. Sudesna Roy	KIIT University, Bhubaneswar	Stability of Lutetium Oxyorthosilicate Nano Phosphors
0:15	15:05	15:20	Dr. Chandan Ghanty	IIT Kharagpur	Effect of particle size on electrochemical performances of Li ₂ [Ni _{0.5} Co _{0.5} Mn ₂]O ₂ cathode materials for lithium-ion batteries
0:15	15:20	15:35	Mr. Subhajit Pan	IIT Kharagpur	Synthesis and characterization of perovskite type anode material and its tape casting for IT-SOFC application

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	15:35	15:50	Dr. Bavya Devi. K	IIT Kharagpur	Biodegradation and in Vitro Biocompatibility of Magnesium Phosphate Bioceramics
0:15	15:50	16:05	Mr. Gurdev Singh	IIT Madras	Freeze Casting of Tricalcium Phosphate/ Camphene Based Porous Scaffold at Constant Freezing Temperature
0:15	16:15	16:30	TEA BREAK		
7th Session: Session Chair: Prof. Jerzy A. Szipunar					
0:20	16:30	16:50	Dr. Dheepa Srinivasan	GE India Bangalore	Advanced Materials Technologies for Structural Component Repair
0:20	16:50	17:10	Prof. Ashutosh Gandhi	IIT Bombay	Yttrium Silicate Environmental Barrier Coatings for SiC Ceramic Composites
0:20	17:10	17:30	Prof. Sujay Kar	IIT Kharagpur	High temperature low cycle fatigue behaviour with and without dwell time for a newly developed Ni based superalloy Haynes282
0:15	17:30	17:45	Sadananda Chakraborty	NITTR Kolkata	Experimental Analysis on the Characteristics of Gas Turbine Blade Materials
0:15	17:45	18:00	Somnath Nandi	BHEL Hyderabad	Creep rupture behaviour of Alloy 617 Nickel Base Super Alloy for Advanced-Ultra Super Critical Power Plant Applications
0:15	18:00	18:15	Narendra Bandaru	IIT Gandhinagar	Oxidation behavior of Rare Earth SmCo5 Magnetic Thin Films
3:00	19:00	22:00	Cultural Program and DINNER		

Prof. S.K. Pabi symposium on Nano-materials for Structural, Functional and Energy Application

6th November

Duration	Poster Session		Presenter	Institute	Title of the poster
1:00	8:00	9:00	Registration & Breakfast		
4th Session: 9:00 am to 10:40 am; Session Chair:					
Professor I. Manna, IIT Kanpur					
0:30	9:00	9:30	Prof. G. K. Dey	BARC, Mumbai	High temperature materials: Design and assessment for critical applications
0:20	9:30	9:50	Dr. S. A. Syed Asif	Hysitron R&D center, USA	High temperature and High throughput mechanical measurements at nanometer length scale
0:20	9:50	10:10	Dr. Partha Sarathi Basak	Gradient Wire Pvt. Ltd., Kol.	Diffusion phenomena in alpha brass wire with thin coating of zinc
0:15	10:10	10:25	Dr. Jatin Das	DMRL, Hyderabad	Microstructure, thermal and mechanical properties of ZrB ₂ -SiC composites with various forms of carbon reinforcements

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	10:25	10:40	Subhankar Das	NIT Silchar	Effect of oxidation and silanization of C60 on the tensile and dynamic mechanical behavior of epoxy nanocomposites
0:15	10:45	11:00	Tea break		
5th Session: 11:00 am to 12:50 am; Session Chair: Prof. A. Basumallick, IEST Shibpur					
0:25	11:00	11:25	Prof. I. Manna	IIT Kanpur	Discontinuous precipitation - A model moving boundary reaction
0:20	11:25	11:45	Dr. Suresh Babu Pitchuka	ARCI, Hyderabad	Thermally sprayed nano-structured coatings: An overview
0:20	11:45	12:05	Dr. Jatin Bhatt	VNIT Nagpur	Investigation of mechanical behavior of nanocomposite derived from Zr based metallic glass
0:15	12:05	12:20	Debasis Nayak	IIT Kharagpur	Structural and electrochemical studies on nanostructured Fe ₂ O ₃ thin film deposited by PLD as anode for sodium-ion battery
0:15	12:20	12:35	R Suman	NIT Rourkela	Sputtering of Ni/Ti bi-layer on Si(100) & their mechanism of deposition

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	12:35	12:50	Swastika Banthia	IIT Kharagpur	Functionally graded Cu, Cu-SiC nanocomposite coating on Cu substrate- A novel investigation
0:15	12:50	13:05	Kaushik Roy	Jadavpur University	Measurement of electrical conductivity of thin film composed of green synthesized silver nanoparticles
0:30	12:45	13:15	2nd Poster session		
1:00	13:15	14:15	Lunch		
6th Session: 2:15 pm to 4:20 pm; Session Chair: Prof T. Pal, IIT Kharagpur					
0:20	14:15	14:35	Dr. Somenath Roy	CGCRI, Kolkata	Graphene nanocomposite for biosensor application
0:15	14:45	15:00	Prof. Anita Warriar	AMET University Chennai	Photoinduced heat generation mechanism in Ag nanoparticles embedded in SiO ₂ and -In ₂ S ₃ matrix
0:15	15:00	15:15	Chandrajit Verma	IIT BHU	Synthesis of Pin/CNT nanocomposite for electronic device application.
0:15	15:15	15:30	Preeti Tiwari	IIT BHU	Synthesis of palladium nanoparticles and its application for sensing application

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	15:30	15:45	Moumita Dewan	IIT Kharagpur	Selective hydrogen sensing characteristics of bismuth iron oxide nano-particles
0:15	15:45	16:00	Sarbani Ghosh	IIT Kharagpur	Hydrogen adsorption in boron-doped carbon nanotube with Stone-Wales defect
0:15	16:00	16:15	R. M. Bakhtiar Azim	BUET Dhaka	Synthesis of graphene oxide - tin oxide composite for photocatalytic degradation of dye
0:15	16:15	16:30	Tea break		
7th Session: 4:30 pm to 6:20 pm; Session Chair: Professor R. Mitra, IIT Kharagpur					
0:30	16:30	17:00	Prof. P. P. Chattopadhyay	NIFFT, Ranchi	Structural features in polycrystalline nanomaterials: An overview
0:20	17:00	17:20	Prof. Anandh Subramaniam	IIT Kanpur	Stabilization of coherent precipitates in pre-stressed nanostructures
0:14	17:20	17:34	D. Vijay Kumar	IIT Bombay	Microstructure, mechanical behaviour and thermal stability of electrodeposited nanocrystalline iron

Duration	Poster Session		Presenter	Institute	Title of the poster
0:14	17:34	17:48	Wahida Raj Ilaham	IIT Kharagpur	Microstructure and Mechanical property Evaluation of Oxide Dispersion Strengthened Ferritic Steels
0:14	17:48	18:02	Ramesh Kumar Nayak	NIT Rourkela	Evaluation of mechanical and thermal properties of sea water treated nano TiO ₂ enhanced GFRP composites
0:14	18:02	18:16	Arghya Patra	IIT Kharagpur	A novel multiphase Sn-Sb-Ni alloy electrodeposited on 3D interconnected microporous Ni current collector as negative electrode for Li ion battery
0:14	18:16	18:30	Richa Misra	IIT BHU	Phase transition of silver nanoparticles from aqueous to organic: A quick size-sorted approach
1:00	18:30	19:30	Cultural program		
2:00	19:30	21:30	Dinner		

Schedule: Prof. M. Chakraborty Symposium on "Advanced techniques in Materials Processing"

6th November

Duration		Poster Session		Presenter	Institute	Title of the poster
3rd Session: Session Chair:						
0:30	9:00	9:30	Dr Asim Mukhopadhyay			
0:20	9:30	9:50	Dr Prashanth Konda Gokuldoss	Erich Schmid Institute of Materials Science, Austrian Academy of Sciences	Tuning of Tensile Properties in Nano-Structured Alloys Processed by Selective Laser Melting	
0:15	9:50	10:05	Dr Durbadal Mandal	NIT Durgapur	Effect of Processing Routes and Process Parameters on the Microstructure and Mechanical Properties Al-Cu-Mg alloy	
0:15	10:05	10:20	Mr Surajit Patra	NIT Durgapur	Evaluation of microstructure hardness and mechanical properties of hypoeutectic, eutectic and hypereutectic Al-Si alloys	
0:15	10:20	10:35	Mr Praveen Aluru	IISc Bangalore	Abrasive wear behaviour of artificially aged Al-Mg-Si alloy	

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	10:35	10:50	Mr Mithlesh Kumar Mahto	GURU GOBIND SINGH EDUCATIONAL SOCIETY'S TECHNICAL CAMPUS	Microstructure modification improves mechanical and wear properties of Al-Cu alloy
0:10	10:50	11:00	Tea		
4th Session: Session Chair:					
0:15	11:00	11:15	Mr E Subba Rao	ANDHRA UNIVERSITY	Microstructure, mechanical and corrosion properties of Boron carbide dispersion strengthened aluminium matrix composites
0:15	11:15	11:30	Ms Kinnera Meghana	IIT Kharagpur	Microstructure and Magnetic Properties of Co- and Fe-doped rapidly solidified Ni ₂ MnGa Heusler alloys
0:15	11:30	11:45	Mr Sandeep Kumar	IIT Roorkee	Effect Of Pb Content On The Wear, Microstructure And Hardness Of Spray Formed Al-Si Alloys
0:15	11:45	12:00	Mr Manjunath G K	NIT, Karnataka	Microstructure and Tensile Properties of Al-10Zn-2Mg Alloy Processed by Equal Channel Angular Pressing

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	12:00	12:15	Mr Sumit Bahl	IISc Bangalore	Precipitation behaviour and its effect on mechanical properties in Ti-Nb-xSn alloys for orthopedic applications
0:15	12:15	12:30	Mr Atanu Paul	IEST Shibpur	Effect of shoulder concave volume on the mechanical properties of friction stir welded AA7039
0:15	12:30	12:45	Dr Anil Chaubey	CSIR-IMMT , Bhubaneswar	Microstructure and mechanical property of Mg-7.4%Al alloy produced by powder metallurgy
1:30	12:45	14:15	Lunch		
5th Session: Session Chair:					
0:30	14:30	15:00	Prof. Satish Kailash		
0:15	15:00	15:15	Dr Chaitanya Sharma	Rustamji Institute of Technology	DISSIMILAR FRICTION STIR WELDING OF AA2024 AND AA7039 ALLOYS
0:15	15:15	15:30	Mr. Anil Kumar Sv	PSG College of Technology	Optimization of Process Parameters for Low Temperature Brazing of Ti-6Al-4V to itself and Stainless Steel by Taguchi Method

Duration	Poster Session		Presenter	Institute	Title of the poster
0:15	15:30	15:45	Mr Jyotirmaya Kar	IIT Kharagpur	INFLUENCE OF BEAM OSCILLATION ON Ti-6Al-4V ELECTRON BEAM WELDMENTS
0:15	15:45	16:00	Mr Bharath Bandi	IIT Kharagpur	Characterization of microstructure and Mechanical Properties of Electron Beam Welded Zr4 -Zr4 & Zr4 -304L Stainless Steel Joints
0:30	16:00	16:30	Tea		
5th Session (Contd) : Session Chair:					
0:15	16:30	16:45	Mr Soumitra Kumar Dinda	IIT Kharagpur	Defects Characterization of Electron Beam Welded Fe-Al alloy to Steel Joints by Sub-micron X-Ray Radiography
0:15	16:45	17:00	Mr Lord Jaykishan Nayak	IIT Kharagpur	TRANSIENT TEMPERATURE MEASUREMENT USING THERMOCOUPLE DURING ELECTRON BEAM WELDING OF SS 304
0:15	17:00	17:15	Ms Indhu R	IIT Madras	DISSIMILAR WELDING OF GALVANIZED DUAL PHASE STEEL WITH ALUMINUM 6061 BY YB:YAG FIBER LASER

Schedule: Symposium on Modern Trends in Extractive Metallurgy

6th November

Duration	Time		Speaker	Institute	Title of presentation
4th Session: Session Chair: Prof. Afzal Khan, NIT Shrinagar					
0:30	9:00	9:30	Prof. P. K. Sen	Dept of MME, IIT Kharagpur	Sustainability in the context of metal production: focus on future trends
0:30	9:30	10:00	Prof. D. Majumdar	Dept of MME, IIT Kanpur	Ingot Solidification Process: Numerical Modeling, Industrial Scale Measurements and Validation
0:25	10:00	10:25	Prof. Niloy Kumar Nath	JSPM, RSC college of Engineering	Model based Software System for Optimizing Ingot and Concast steel reheating in Soaking pit and Walking beam furnace
0:20	10:25	10:45	Dr. D.C.Sau	MEF Division, CSIR-National Metallurgical Laboratory, Jamshedpur	Conversion of hematite powder into magnetite used for heavy media separation

Duration	Time		Speaker	Institute	Title of presentation
5th Session: Session Chair: Prof. D. Majumdar, IIT Kanpur					
0:30	11:00	11:30	Prof. B. K. Misra	CSIR-IMMT, Bhubaneswar	Rare-earth elements: Beneficiation to extraction
0:25	11:30	11:55	Prof. T. K. Kundu	Department of MME, IIT Kharagpur, India	Bloated Droplet Theory and Cellular Automata based Modeling in Steelmaking
0:20	11:55	12:15	Madan M.	MEF Division, CSIR-National Metallurgical Laboratory, Jamshedpur	DEM modeling of inclusion removal by synthetic slag treatment
0:20	12:15	12:35	Dr.Satadal Ghorai	MEF Division, CSIR-National Metallurgical Laboratory, Jamshedpur	Quality assessment of high fluxed iron ore pellets
6th Session: Session Chair: Prof. Shin-ya Kitamura, Tohoku University, Japan					
0:30	14:15	14:45	Dr. D. Bandyopadhyay	MEF Division, CSIR-National Metallurgical Laboratory, Jamshedpur	Low Temperature Reduction of Iron Ore Fines
0:30	14:45	15:15	Dr. S. K. Biswal	CSIR-IMMT, Bhubaneswar	Technological Challenges on Pelletisation Process for High LOI Iron Ore Fines

Duration	Time		Speaker	Institute	Title of presentation
0:20	15:15	15:35	Mr. Srinibash Mishra	Dept of MME, IIT Kharagpur	Effect of carbon Content on the Reduction Behaviour of Iron Ore-Coal Composite Pellets in Multi-Layer Bed Rotary Hearth Furnace (RHF)
0:20	15:35	15:55	Mr. Deepak Gorai	Dept of MME, IIT Kharagpur	Studies on Different Binders and their Effects on Pelletization and Iron Making
0:20	15:55	16:15	Mr. Sooraj S.	Dept of MME, IIT Kharagpur	Kinetic modeling of Rotary Hearth Furnace
0:15	16:15	16:30	Mr. Bharat Khurana	Dept of MME, IIT Kharagpur	Insitu inclusion evolution in steel by confocal microscopy

Schedule: Prof. S. K. Roy Symposium on Surface Engineering & Corrosion

6th November

Duration	Poster Session	Presenter	Institute	Title of the poster	
4th Session: Session Chair: Prof U K Chatterjee, Former Professor, IIT Kharagpur and visiting Professor, IEST, Shibpur)					
Surface Engineering III					
0:30	9:00	9:30	Prof. I. Manna	IIT Kanpur	Tailoring Surface Microstructure by Laser Assisted Surface Engineering
0:30	9:30	10:00	Dr. S. Dash	IGCAR, Kalpakkam	Functional Hard Coating for Surface Engineering Application
0:20	10:00	10:20	Prof. A Basu	NIT Rourkela	Synthesis and characterization of pulsed electrodeposited Cu-Y2O3 coating
0:15	10:20	10:35	Mahesh VP	IIT Gandhinagar	Aluminium-Molybdenum System By Friction Stir Surface Alloying Process
0:15	10:35	10:50	Soumya Brata Basak	Ideal Institute of technology, Nadia, WB	Studies On Electron Beam Surface Melting Of Inconel 617
	10:50	11:00	TEA		
5th Session: Session Chair: Dr. Subhasri Raghvan, ARCI, Hyderabad					
Surface Engineering IV (Surface Engineering for Tribological Application)					
0:30	11:00	11:30	Dr. Manish Roy	DMRL, Hyderabad	Degradation of Thermal Barrier Coatings System
0:30	11:30	12:00	Dr. L. Besra	IMMT, Bhubaneswar	Electrophoretic Deposition and its Application in Steel Sectors
0:30	12:00	12:30	Prof. A. K Nath	IIT Kharagpur	A Novel Laser Surface Treatment Approach for Enhancing Intergranular Corrosion Resistance of Austenitic Steel

Duration	Poster Session		Presenter	Institute	Title of the poster
0:20	12:30	12:50	Dr. Buddhdeb Oron	BARC	Evaluating hardness of thin electroless Ni-B coating using conventional microhardness tester
0:10	12:50	13:00	Abhay Sankar Yadav	MNIT Allahabad	Slurry Erosion Wear Behaviour Of Detonation Gun Sprayed Al ₂ O ₃ -13TiO ₂ And Al ₂ O ₃ -40TiO ₂ Coatings On SAE 431 Stainless Steel
0:15	13:00	13:15	Prashant Singh	MNIT Allahabad	Studies On Erosion Behaviour Of SAE-208, SA-231-T12 And SA-213-T91 Boiler Steels At Room Temperature
1:00	13:15	14:15	LUNCH		
6th Session: Session Chair: Dr. Manish Roy, DMRL, Hyderabad					
Surface Engineering V					
0:30	14:15	14:45	Prof. T. S. Sampath Kumar	I. I. T. Madras	Surface Engineering of Bio-implant
0:30	14:45	15:15	Dr. Subasri Raghvan	ARCI, Hyderabad	Surface modification using sol-gel hybrid nano composit coating
0:20	15:15	15:35	Prof. Arijit Sinha	IEST Sibpur	Effect of Aluminum Coating on the Surface Modification of Martensitic TiNi Alloy
0:20	15:35	15:55	Mr. Animesh Chakraborty	IIT Khragpur	Carbide dispersed stainless steel surfacing for improved wear resistance
0:15	16:15	16:30	TEA		

Duration	Poster Session	Presenter	Institute	Title of the poster	
7th Session: Session Chair, Prof. A. K. Nath, IIT Kharagpur					
Corrosion II					
0:40	16:30	17:10	Prof. P. K. Mitra	Jadavpur University	Enhancement of bio functionality of implants with nanolayers
0:40	17:10	17:50	Dr. T. C. Alex	NML, Jamshedpur	
0:15	17:50	18:05	Preeti Purohit	COE Pune	High Temperature Oxidation Behavior Of Lanthanum Titanium Oxide
0:10	18:05	18:15	Sharath A	IIT Kharagpur	Corrosion behavior of electron beam melted Zircaloy
0:15	18:15	18:30	Ankur V Bansod (Sourabh Shukla)	VNIT Nagpur	Microstructural And Electrochemical Evaluation Of Fusion Welded 304 ASS At Different Heat Input

Schedule: Symposium on Computational Materials Science

6th November

Duration	Time		Speaker	Institute	Title of presentation
4th Session:					
0:30	9:00	9:30	Prof. Saptarshi Majumdar	Indian Institute of Technology, Hyderabad	Hovering Around Polymers: A Journey in Multi-scale Engineering
0:30	9:30	10:00	Prof. S. Kartikeyan	Materials Engineering, IISC	
0:30	10:00	10:30	Prof. Sudipto Ghosh	Indian Institute of Technology, Kharagpur	Density Functional Studies on Li insertion in Si
0:20	10:30	10:50	Prof. Animesh Talapatra	MCKV Institute of Engineering	Molecular dynamic simulation of graphene reinforced polyurethane nanocomposite for mechanical properties calculation
0:15	10:30	10:45	Mr. Dhritiman Talukdar	NIT-Silchar	

Duration	Time		Speaker	Institute	Title of presentation
5th Session:					
0:30	11:00	11:30	Prof. Pierre Collet	University of Strasbourg, France	
0:30	11:30	12:00	Prof. Nirupam Chakraborti	Indian Institute of Technology Kharagpur	Data-driven Modeling in Metallurgy and Materials: EvoNN and BioGP Algorithms
0:30	12:00	12:30	Dr. Chandan Halder	MIDHANI Hyderabad	
0:00					
			LAUNCH		
6th Session:					
0:35	14:15	14:50	Prof. Arghya Tarafdar	Indian Institute of Technology Kharagpur	Emergent Phenomena in Oxide Hetero-interface
0:30	14:50	15:20	Prof. Priya Mahadevan	SN Bose National Centre for Basic Sciences	Breaking down the system to its brass tacks – What do we learn from it?
0:25	15:20	15:45	Prof. Swastika Chatterjee	Indian Institute of Technology Kharagpur	Emergence of intrinsic half-metallicity and ferromagnetism in MoS ₂ nanocrystals : A first principles study
0:30	15:45	16:15	Prof. Koushik Biswas	Indian Institute of Technology Kharagpur	Density functional study on energy materials
0:00					
0:00					
0:00			TEA		

Duration	Time		Speaker	Institute	Title of presentation
7th Session:					
0:30	16:30	17:00	Prof. Jishnu Bhattacharya	Indian Institute of Technology Kanpur	Mn-oxides as Li-battery cathodes
0:30	17:00	17:30	Dr. Mudit Dixit	Bar Ilan University	Computational Insights to the Electrochemical and Thermodynamic Properties and Degradation Mechanism of Ni-rich NCMs
0:20	17:30	17:50	Mr Mohit Garg	Indian Institute of Technology Kharagpur	A density functional theory based study of LaNiO ₃
0:00					
0:00					

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Schedule of iCAMMP-iv, 2016

7th November 2016 (Monday)

8:00 AM – 9:00 AM	Registration and Breakfast
9:00 AM – 10:45 AM	8 th Session
10:45 AM – 11:00 AM	High Tea
11:00 AM – 12:45 PM	9 th Session
12:45 PM – 1:15 PM	3 rd Poster session
1:15 PM – 2:15 PM	Lunch
2:15 PM – 3:15 PM	10 th Session
3:15 PM- 4:00 PM	High Tea
4:00 PM – 5:00 PM	Valedictory session

Schedule: Advances in characterization of microstructure and texture

7th November

Duration	Time		Speaker	Institute	Title of presentation
8th Session: Session Chair- Dr. M Teresa P Prado					
0:30	9:00	9:30	Prof. Thierry Grosdedier	University of Lorraine, Metz, France	Quantitative microstructure and texture characterization of severely plastically deformed surfaces and consolidated powders
0:25	9:30	9:55	Prof. Tapas Laha	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Effect of processing parameters on microstructural phase evolution in spark plasma sintered Al based bulk amorphous alloy
0:25	9:55	10:20	Dr. Shibayan Roy	Materials Science Centre, IIT Kharagpur	Orientation dependent spheroidization response and α -phase texture evolution during sub β -transus annealing of Ti-6Al-4V alloy
0:25	10:20	10:45	Mr. Hasan	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Stress Assisted Bainite Transformation and Thermal Stabilization of Bainite
0:15	10:45	11:00	TEA		

Duration	Time		Speaker	Institute	Title of presentation
9th Session: Session Chair: Prof. Thierry Grosdedier					
0:25	11:00	11:25	Prof. Debalay Chakrabarti	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	
0:25	11:25	11:50	Dr Badirujjaman Syed	R&D Division, Tata Steel Ltd. Jamshedpur – 831001	Influence of laser surface hardening treatment on mechanical properties of low carbon automotive grade steels
0:25	11:50	12:15	Dr. Mani Krishnan	Mechanical Metallurgy Division, Bhabha Atomic Research Centre, rombay, Mumbai	A novel algorithm for the characterization of the faceted microstructures
0:15	12:15	12:30	Mr. Mainak Sen	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Tensile Deformation Mechanism of a Titanium alloy for aircraft structural application
0:15	12:30	12:45	Mr. Alok Kumar Singh	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	Microstructure and texture evolution during compression of IF steels
0:30	12:45	13:15	POSTER SESSION	Session Chair: Prof. Rahul Mitra	
			Mr. Sabyasachi Saha	Defence Metallurgical Research Laboratory, P.O. Kanchanbagh, Hyderabad, India	Microstructural Characterization of High Temperature Silicide Coating on Nb-based Alloy C-103

Duration	Time		Speaker	Institute	Title of presentation
			Mr. Sagar Telrandhe	Dept. of Mechanical Engineering, IIT Bombay, Powai, Mumbai- India	Effect of annealing and laser treatment on the microstructure of Ti6Al4V
			Ms. Sailaja Sharma	Dept of Metallurgical Engineering & Materials Science, IIT Bombay, Mumbai India	A Comparison between Recrystallization Kinetics of Retained Austenite and Strain Induced Martensite by Thermal Cycling of a 90% Cold Rolled 304L Stainless Steel
			Mr. Devesh Kumar Chouhan	Dept. of Metallurgical and Materials Engg., IIT Kharagpur	CSL boundaries in CP Titanium
			Mr. Santosh Kumar	R&D Centre for Iron and Steel, Steel Authority of India Limited	Processing of IS 513 CR4-EDD steel for Improved formability at Bokaro Steel Plant
			Mr. Snehashish Tripathy	Materials science and Technology division, CSIR-NML, INDIA	Texture Evolution in Grain Oriented Electrical Steel produced by Directional Inoculation during Solidification
			Mr. Suraj Kumar	Defence Metallurgical Research Laboratory, Kanchanbagh, Hyderabad	Microstructural Investigations in Tungsten Heavy Alloy during Powder Metallurgy Processing
1:00	13:15	14:15	LUNCH		

Duration	Time		Speaker	Institute	Title of presentation
1:00	14.30	15.30	Interaction with Prof. Jerzy A Szpunar, Prof Ranjit Kumar Ray, Prof. Karl Ulrich Kainer, Prof. Thierry Grosdedier, Prof. Heinz Gunther Brokemeier, Prof. G V S Sastry		
0:15	16:15	16:30	TEA		

Schedule: Prof. K. K. Ray Symposium on Deformation and Fracture

7th November

Duration	Time		Speaker	Institute	Title of presentation
8th Session: Session Chair: Dr. Anoop K Mukhopadhyay					
0:25	9:00	9:25	Dr. S. Tarafder	CSIR-NML, Jamshedpur	The mechanics of damage evolution during deformation, fatigue and fracture
0:20	9:25	9:45	Dr. Chandan Kumar Mukhopadhyay	IGCAR, Kalpakkam	Acoustic emission and infrared thermography techniques for characterizing deformation and fracture behaviour in materials
0:20	9:45	10:05	Dr. Manab Mallick	NIT Durgapur	Mechanical behavior of ultra-high temperature ceramic composites
0:10	10:05	10:15	Ahmad Omar	Department of Metallurgical Eng and Material Sci, IIT Bombay	Effect of Bulging Geometry on Crack Location for As-Received and Annealed Tube Hydroforming Process
0:10	10:15	10:25	V. Satheeshkumar	Department of Mechanical Eng, Amrita School of Eng, Amrita University, Coimbatore	Assessment of formability of adhesive bonded sheets through neural network

Duration	Time		Speaker	Institute	Title of presentation
9th Session: Session Chair: Prof. Pravash Chandra Chakraborty					
0:20	11:00	11:20	Dr. Vinod Kumar	RDCIS, SAIL, Ranchi	Study of Hot-Deformation Behaviour of Metals And Alloys - Role of Hot Compression Testing
0:20	11:20	11:40	Dr. A. Moitra	IGCAR, Kalpakkam	Evaluation of Dynamic Fracture Parameters from Instrumented Impact Tests: An IGCAR Perspective
0:20	11:40	12:00	Dr. Anish Kumar	IGCAR, Kalpakkam	Nondestructive evaluation of deformation and fracture behavior of metallic materials through ultrasonic and magnetic techniques
0:10	12:00	12:10	S.D.Jambekar	Gujarat State Fertilizers And Chemicals Limited	Failure analysis of CO ₂ Distribution sparger of Urea Reactor, Urea-I plant.
0:10	12:10	12:20	Payel Maiti	CSIR- Central Glass & Ceramics Research Institute, Kolkata, India	Nanomechanical Response of MgO Doped Fine Grain Alumina
0:10	12:20	12:30	M. Jana	Mechanical Engineering Department, Jadavpur University, Kolkata	A cohesive zone model for crack growth simulation in Ductile Material (20MnMoNi55)

Duration	Time		Speaker	Institute	Title of presentation
10th Session: Session Chair: Prof. R. Mitra					
0:20	14:15	14:35	Dr. Gautham Mukhopadhyay	Tata Steel R&D and SS, Jamshedpur	Failure of Engineering Components in an Integrated Steel Plant
0:20	14:35	14:55	Dr. Rajdeep Sarkar	DMRL, Hyderabad	Study of yield point phenomenon in Ti-15-3 beta titanium alloy
0:10	14:55	15:05	Lakhindra Marandi	Department of Metallurgical and Materials Engineering, IIT Kharagpur	Effect of Saline Solution on the Mechanical Behaviour of Steel
0:10	15:05	15:15	Md. Basiruddin Sk.	IIT Kharagpur	Effect of reheating temperature and cooling treatment on the microstructure, texture and impact transition behaviour of heat treated naval grade HSLA steel
0:10	15:15	15:25	Renuprava Dalai	VSSUT Burla, Odisha, India	Micro-structural characterization and deformation mechanism of low carbon high manganese steel
0:00			Interaction with Prof. K.K. Ray		
POSTER Presentation:					
			Name	Institute	Title of Poster

Duration	Time		Speaker	Institute	Title of presentation
		1	Kevin Jacob		CRACK HOLE INTERACTION IN AA 7075-T651 PLATE
		2	R. Goutham Reddy	KITSS	FRACTURE TOUGHNESS PROPERTIES OF FRP COMPOSITE LAMINATES WITHOUT VOIDS AND WITH VOIDS.
		3	Mr Chandrakesh Prasad	IIT Kharagpur	Dispersion of nano-spheroids cementite in fine grain eutectoid steel through novel thermo-mechanical processing
		4	S.D.Jambekar	Gujarat State Fertilizers And Chemicals Limited	FAILURE INVESTIGATION OF EVAPORATOR COIL OF WASTE HEAT BOILER OF CAPROLACTAM PLANT

Schedule: Glass, Ceramics, Composites and High Temperature Materials

7th November

Duration	Time		Speaker	Institute	Title of presentation
8th Session: Session Chair: Dr. Rajendra N. Basu					
0:30	9:00	9:30	Prof. Rahul Mitra	IIT Kharagpur	Effect of reinforcement additions and W-contamination on mechanical and thermal properties as well as oxidation and ablation properties of ZrB ₂ based ultra-high temperature ceramic composites
0:15	9:30	9:45	Prof. Shrinivas Rathod	JK Lakshmi Pat University Jaipur	Microstructure dependent magnetic behavior study of Co ₂ Cr _{0.8} Fe _{0.2} Al Heusler alloy powders prepared by ball milling
0:15	9:45	10:00	Abhijeet Singh	SRM University Chennai	PECULARITY OF OCHROMA PYRAMIDALE (BALSAWOOD) AS FILLER MATERIAL WITH HONEYCOMB STRUCTURE IN CARBON FIBRE COMPOSITES
0:15	10:00	10:15	J. Suresh Kumar	MIT Anna University Chennai	Taguchi-Grey Multi Response Optimization on Structural Parameters of Honeycomb Core Sandwich Structure for Low Velocity Impact Test

Duration	Time		Speaker	Institute	Title of presentation
0:15	10:15	10:30	Alok Behera	VNIT Nagpur	Mechanical behavior of luffa/ Kevlar Reinforced epoxy based hybrid laminated and short fibre composites
0:15	10:45	11:00	Tea Break		
9th Session: Session Chair: Prof. Mangal Roy					
0:30	11:00	11:30	Dr. Rajendra N. Basu	CSIR-CGCRI, Kolkata	Nanostructured Functional Materials for Energy Applications
0:15	11:30	11:45	Amar Bahadur Maurya	IIT BHU	Blend of poly-methyl methacrylate (PMMA) and polycarbonate (PC), with metal oxide and graphene as compatibilizer and (Tris (2,4-ditert butyl phenyl) phosphate as Thermal oxidative stabilizers, for structural material used in automobile and building application
0:15	11:45	12:00	Samarpita Roy	IEST Shibpur Howrah	Effect of Erbium oxide addition on microstructure and non-ohmic properties of Zinc oxide varistor ceramics
0:15	12:00	12:15	A. K. Chaubey	IMMT Bhubaneswar	Microstructure and mechanical property of Mg-7.4%Al alloy produced by powder metallurgy

Duration	Time		Speaker	Institute	Title of presentation
0:15	12:15	12:30	Ashis Dey	IEST Shibpur Howrah	Tribological behaviour of zirconia toughened alumina (ZTA) added with different soft oxides
1:00	13:15	14:15	Lunch Break		

Prof. S. K. Pabi symposium on Nano-materials for Structural, Functional and Energy Application

7th November

Duration	Time		Speaker	Institute	Title of presentation
1:00	8:00	9:00	Registration & Breakfast		
8th Session: 9:00 am to 10:50 am; Session Chair: Professor S. Das, IIT Kharagpur					
0:30	9:00	9:30	Prof. N.R. Bandyopadhyay	IEST, Shibpur	Luminescence from silicon nanostructures
0:20	9:30	9:50	Dr. Joydip Joardar	ARCI, Hyderabad	Synthesis of 2D-nanolayered MoS ₂ and WS ₂
0:14	9:50	10:04	Smita Mukherjee	CSIR-CGCRI	2D Au nanoparticle-surfactant layering of titania thin films: Towards multifunctional energy application
0:14	10:04	10:18	Pannalal Choudhury	NIT Silchar	Mechanical characterization graphene infused hybrid GFRP laminates
0:14	10:18	10:32	Mainul Akhtar	IIT Kharagpur	Electrochemical performance of LiNi _{0.5} Mn _{1.5} O ₄ - MWCNT composite cathodes for Li-Rechargeable batteries
0:14	10:32	10:46	Janakiraman S.	IIT Kharagpur	Electroactive gel polymer electrolyte for lithium ion battery with good ionic conductivity
0:15	10:45	11:00	Tea break		

Duration	Time		Speaker	Institute	Title of presentation
9th Session: 11:00 am to 12:50 am; Session Chair: Prof. Jatin Bhatt, VNIT Nagpur					
0:20	11:00	11:20	Dr. Raghunandan Seelaboyina	BHEL R&D, Hyderabad	Growth of aligned carbon nanotube array on large substrate and conversion to macrostructured yarn
0:15	11:20	11:35	Alok Bhadauria	IIT Kharagpur	Effect of graphene nano platelets (GNPs) addition on tensile properties of pure micro crystalline aluminium synthesized via spark plasma sintering
0:15	11:35	11:50	Aparna Zagabathuni	IIT Kharagpur	The effect of nanofluid container material on the measured thermal conductivity
0:15	11:50	12:05	Anaparthi Ganesh Kumar	IIT Kharagpur	Sulfonated poly(ether imide)s with improved hydrolytic and oxidative stability
0:15	12:20	12:35	Vineet Kumar Mall	IIT BHU	Green synthesis of nano-poly (indole-5-carboxylic acid) using microwave radiation
0:15	12:35	12:50	Aparbal Kumar	IIT Kharagpur	Effects of varying Bi composition on the electrical transport and thermoelectric properties in p-type $Cu_3Sb_{1-x}Bi_xSe_4$
0:30	12:45	13:15	3rd Poster session		
1:00	13:15	14:15	Lunch		

Duration	Time		Speaker	Institute	Title of presentation
10th Session: 2:15 pm to 3:15 pm, Session Chair: Dr. Raghunandan Seelaboyina, BHEL R&D					
0:15	14:15	14:30	Rajiv K. Pandey	IIT BHU	Effect of metal nanostructure on spectroscopic and charge transport properties of poly(3,3-dialkylquaterthiophene) LS film.
0:15	14.30	14.45	P. P. Dahiya	IIT Kharagpur	Structural and electrochemical characterization of Zr doped $x\text{Li}_2\text{MnO}_3-(1-x)\text{LiMn}_0.375\text{Ni}_0.375\text{Co}_0.25\text{O}_2$ ($x = 0.25$ and 0.5) layered-layered composite
0:15	14:45	15:00	Sihka Dubey	IIT BHU	Statistical analysis of the process of adsorption of Cr(VI) by -Alumina nanoparticles
0:15	15:00	15:15	Pinky Saikia	CSIR-NEIST, Jorhat	Synthesis of high surface area mesoporous Zn-Cr-LDH nanosheet by preferential etching out of Cr^{3+} ion in presence of -diketonate ligands
0:15	15:15	15:30	Barna Roy	IIT Kharagpur	Evolution and interaction of structural defects during nanostructuring of in $\text{Cu}_{100-x}\text{Zn}_x$ ($0 < x < 30$ wt.%) alloys rolled at cryogenic temperature
0:45	15:15	16:00	Tea break		

Duration	Time		Speaker	Institute	Title of presentation
1:00	18:30	19:30	Valedictory Session		
Selected Posters					
Sl. No.	Abstract ID	Name	Institute		
1	ICAMMP10232	Ramkrishna Sahoo	IIT Kharagpur		
2	ICAMMP10085	Tania Majumdar	IIT Kharagpur		
3	ICAMMP10192	Anirban Kundu	INST, Mohali		
4	ICAMMP10195	Arit Das	Jadavpur University		
5	ICAMMP10277	Kezia Sasitharan	Christ University, Bengaluru		
6	ICAMMP10289	Madhusudan Kumar Mahto	IIT Kharagpur		
7	ICAMMP10091	Rajashree Samantaray	NIT Rourkela		
8	ICAMMP10258	Atul kumar	IIT Roorkee		
9	ICAMMP10135	S.Bhargav Naik	IIT Kharagpur		
10	ICAMMP10249	Vinita	IIT BHU		
11	ICAMMP10313	Ajeet Srivastav	VNIT Nagpur		
12	ICAMMP10296	Bibhu Prasad sahu	IIT Kharagpur		
13	ICAMMP10193	Alok Kumar	MNNIT Allahabad		
14	ICAMMP10198	Randip Kundu	UEM, Kolkata		
15	ICAMMP10298	Kali Shreyo Ghosal	UEM, Kolkata		

Duration	Time	Speaker	Institute	Title of presentation
16	ICAMMP10322	Madhu Tiwari	KN Govt Degree College	
17	ICAMMP10147	Monisha Michael	IIT Kharagpur	
18	ICAMMP10308	Ashutosh Sahu	IIT Kharagpur	
19	ICAMMP10406	Deblina Majumder	CGCRI, Kolkata	
20	ICAMMP10409	Preetam Guha Ray	CGCRI, Kolkata	
21	ICAMMP10428	Partheban Manoharan	IIT Kharagpur	
22		J. Ronald Aseer	Galgotias University, G. Noida	

Schedule: Prof. M. Chakraborty Symposium on "Advanced techniques in Materials Processing"

7th November

Duration	Time		Speaker	Institute	Title of presentation
6th Session: Session Chair:					
0:15	9:00	9:15	Mr Devesh Mukherjee	IIT Kharagpur	The effect of mushy state rolling on the ageing kinetics of cold rolled Al-4.5Cu-5TiB ₂ in-situ composite
0:15	9:15	9:30	Mr Deepak Kumar Sahini	IIT Bhubaneswar	Thixoforming of A356-5wt%TiB ₂ in-situ composites
0:15	9:30	9:45	Ms Jamuna Sethi	IIT Kharagpur	Development of low expansion and high strength Aluminium hybrid composites
0:15	9:45	10:00	Ms Mridusmita Roy Choudhury	NIT Meghalaya	Cutting Parameters on the Quality of Hole during Drilling of Hemp Fibre Reinforced Composites
0:15	10:00	10:15	Dr Shoba Chintada	GITAM University	Investigations of Surface roughness, Power Consumption, Metal Removal Rate (MRR) and Tool wear during turning hybrid composites

Duration	Time		Speaker	Institute	Title of presentation
0:15	10:15	10:30	Dr Lam Suvarna Raju	Pottisriramulu Chalavadi Mallikharjuna college of Engineering and Technology, (PSCMR)	Influence of SiC particles on the microstructure and mechanical characterization of copper surface composites via friction stir processing
0:15	10:30	10:45	Mr Naveen R	Bannari Amman Institute of Technology	Experimental study of various Sandwich Composites
0:15	10:45	11:00	TEA		
7th Session: Session Chair:					
0:20	11:00	11:20	Dr Vinod Kumar G S	SRM research institute, SRM University	New developments and understanding in the process and stabilization of closed cell aluminum alloy foams
0:20	11:20	11:40	Prof Animesh Mandal	IIT Bhubaneswar	On refinement of primary silicon in hypereutectic Al-Si alloy by γ -Al ₂ O ₃ particles
0:15	11:40	11:55	Dr Chinmoy Chattopadhyay	National Institute of Foundry and Forge Technology Ranchi	A Kinetics Based Critical Study of 'Confusion Principle' for Metallic Glass Formation

Duration	Time		Speaker	Institute	Title of presentation
0:15	11:55	12:10	Mr Agnel Dsouza	IIT Indore	Studies on Large Area Shock Peening of Aluminum Alloy Using Solid State Nd:YAG Laser
0:15	12:10	12:25	Mr Anil Kumar	PSG College of Technology	Effect of Si addition on the phase evolution of AlCoCuCrFeMnSix high entropy alloys
0:15	12:25	12:40	Dr Akula Komuraiah	KITS Singapur	Assigning eco indicating factors for composite materials
0:15	12:40	12:55	Dr Pawan Rakesh	NIT UTTARAKHAND	Selection of Fibers and Matrix for the Development of Green Composites
0:15	12:55	13:10	Prof. Subhadra Sahoo	VSSUT, BURLA	Corrosion Behaviour of Austenitic Stainless Steel in Different Temperature, and pH

Schedule: Prof. S. K. Roy Symposium on Surface Engineering & Corrosion

7th November

Duration	Time		Speaker	Institute	Title of presentation
8th Session: Session Chair: Prof Bertram Mallia, University of Malta					
Duration		Corrosion III		Institute	Title of presentation
0:30	9:00	9:30	Prof. B. Subramanian	CSIR, CECRI	Enhancement of Biofunctionality of Implants with Nanolayers
0:30	9:30	10:00	Prof. J. Dutta Majumdar	I. I. T. Kharagpur	Surface Engineering for Bioimplant Applications
	10:00	10:20	Dr. Prashant Dey	IIT Kharagpur	Nano silver antibacterial coating of implant in orthopedics and trauma
0:20	10:20	10:40	Prof. Sukumar Kundu	IEST Shibpur	Friction Stir Welding of Ultra Low Carbon Steel: Microstructure,
0:20	10:40	11:00	TEA		
9th Session: Session Chair: Dr. Buddhdeb Oron, Jadavpur University					
Duration		Surface Engineering VI		Institute	Title of presentation
0:30	11:00	11:30	Prof Bertram Mallia	University of Malta	A new coating strategy on steel to improve steel-rubber adhesion
0:30	11:30	12:00	Dr. Ravi Bathe	ARCI, Hyderabad	Ultrafast laser for fabrication of multifunctional surfaces

Duration	Time		Speaker	Institute	Title of presentation
0:30	12:00	12:30	Dr. K. S. Ghosh	NIT, Durgapur	Studies of Microstructural Features and Electrochemical Behavior of Dental Amalgams Alloy Powders and their Amulgams
0:15	12:30	12:45	Sumit K Sharma	IIT Kharagpur	Surface Modification of Inconel 718 by Laser Surface Melting
0:15	12:45	13:00	Kalinga Bal	IIT Kharagpur	Corrosion behavior of laser and Electron Beam Welded Hastelloy
0:15	13:00	13:15	Arun Kumar	Ordinance Factory, Kanpur	Surface Engineering of AISI 316L Stainless Steel for Bio-Implant Application
1:00	13:15	14:15	LUNCH		
0:15	15:15	15:30	Interaction with Prof. S.K. Roy		
2:15 pm-3:15 pm		Poster Presentation		Institute	Title of presentation
	9:00	11:00	Vaibhav Kathavate	NIOT, Chennai	An Experimental Investigation, Mathematical Modeling And Protection Of Galvanic Corrosion By Sacrificial Anode System

Duration	Time		Speaker	Institute	Title of presentation
	9:00	11:00	Himani Chauhan	IIRS, Dehradun	Assessment And Characterization Of Meteorological Drought Using Standardized Precipitation Index In The Upper Luni River Basin, Rajasthan
	9:00	11:00	Manoj kumar	I. I. T, Kharagpur	Studies On Electron Beam Surface Melting Of Medium Carbon Steel
	9:00	11:00	Jeetendra Kumar Singh	I. I. T, Kharagpur	Corrossion behaviour of electron beam welded pure niobium

Schedule: Symposium on Computational Materials Science

7th November

Duration	Time		Speaker	Institute	Title of presentation
8th Session:					
0:20	9:00	9:20	Prof. Snehanshu Pal	National Institute of Technology Rourkela	Creep behavior study for ultra-fine grained nano-crystalline metallic systems using atomistic simulation
0:20	9:20	9:40	Prof. S. Aich	Indian Institute of Technology Kharagpur	Multi-scale modeling of deposition and re-sputtering of Ni _x Ti _{1-x} thin film in a magnetron sputtering chamber
0:20	9:40	10:00	Dr. Avisor Bhattacharya	Indian Institute of Technology, Kanpur	A quantitative phase-field simulation of austenite to ferrite transformation under mixed-mode of growth
0:20	10:00	10:20	Dr. Aniruddha Ghosh	Govt College of Engg & Textile Technology ,Berhampore	Analytical Modeling and Experimental Validation of Moving Volumetric Heat Source in Submerged Arc Welding Process
0:20	10:20	10:40	Mr Abhisek Kumar Singh	Indian Institute of Technology, Bombay	Finite Element Modeling of Backward Flow forming of Ti6Al4V alloy

Duration	Time		Speaker	Institute	Title of presentation
0:00					
9th Session: Workshop On Computational Materials Science - I					
1:30	11:00	12:30		Workshop	
0:00					
10th Session: Workshop On Computational Materials Science - II					
1:00	14:15	15:15		Workshop	
0:15	15:15	15:30			
			Poster Presentation		
			Mr K Vijay Reddy		Strain Induced Amorphous to Crystallization Transformation in Nanosized Metallic System: A Molecular Dynamic Study
			Mr Karanam Gururaj		Effect of void in crack propagation in Ni-W alloy thin film
			Mr Bharath Raghavan		Molecular Dynamics Study of Behavior of Gas Adsorption Layer in Nanoporous Graphene
			Prof Mihir Samantaray		Numerical study on heat transfer in Direct Metal Laser Sintering Process
			Mr Soumyaranjan Nayak		Effect of forming ratio on fishtail defect
			Mr Vikram Phalke		Effect of preform height on residual stresses in ring- rolling process using FE simulation
			Mr Ashutosh Agrawal		Study of Enhanced capacity of porous amorphous carbon as anode for lithium ion batteries by Molecular Dynamics
			Mr Srishti Mishra		Effect of Thermal Cycles on Residual Stress Distribution of KovarAlumina Brazed Joint using Finite Element Analysis

Duration	Time	Speaker	Institute	Title of presentation
		Mr S.k. Gargeya B.		The effect of Ti addition at grain boundary on tensile deformation behavior of nano-crystalline Ni
		Mr Yogesh Mhetre		Mechanical Properties of Unidirectional and Woven Lamina FR glass composite by using Finite Element Analysis
		Mr Bansal Darji		Finite Element Analysis for adhesive bonding strength of steel and FRP composite joint
		Mr Sayantan Dutta		Effect of Backbone Stiffness and Grafting Density on the Phase Behavior of Bottle-brush Polymers
		Mr Vishweshwara P S		Determination of Metal Mold Interfacial Heat Transfer Coefficient During Solidification Of Casting: A Review
		Mr Nandita Ghodki		Analysis of oxygen diffusion through biodegradable PLA-MMT nanocomposite doped with silver nanoparticles
		Mr Indumoni Das		Synthesis of G0 PAMAM Dendrimer: Evaluation of Thermo Chemical properties
		Mr Rahul Bhandari		Deformation behavior of Al-Cu-Mg alloys actual RVEs at microlevel
		Prof Natraj Yedla		Deformation behavior and dissipative mechanisms in radiation damaged nano copper single crystal
		Mr Ranjini Sarkar		Density functional theory studies on effect of Ionic liquid on - PVDF