

# 10-March-2010

<b>Session- 8 (Plenary Lectures) Chair: J. Mayer Co-chair: M. Sundararaman</b>		
Time	Speaker	Title
09:00 - 09:35	C Suryanarayan	Microstructural Characterization of Stainless Steel Coatings
09:35 - 10:10	Helmut Kohl	Quantitative high-resolution elemental mapping with an energy filtering transmission electron microscope
10:10 - 10:45	Peter van Aken	Low-loss EFTEM imaging of surface plasmon resonances in Ag nanoparticles and perforated Ag thin films
<b>10:45 - 11:05</b>	<b>TEA</b>	
<b>1105-1305</b>	<b>Parallel Sessions- 9</b>	
<b>Session - 9A Chair: L. E. Anderson Co-chair: K. Ray</b>		
1105-1120	T. C. Nag	Alterations in microtubule shape in aging human photoreceptors
1120-1135	S. Sawant	Molecular and ultrastructural alterations during sequential stages of rat lingual carcinogenesis
1135-1150	B. Bastia	Placental Apoptosis in Pathogenesis of LBW Deliveries
1150-1205	K. Mitra	Structural studies on the largest known virus by Cryo-electron microscopy
1205-1220	I. Ghosh	Mystery of HADP1-Redox Signalling in Apoptosis: Clue from Ultrastructural Analysis
1220-1235	R. Tomar	Ultra structural studies & immunocytochemical detection of mitochondrial succinate dehydrogenase in infertile human spermatozoa
1235-1250	S. Datta	Cryo-negative staining improves the resolution of 3D structure of V. cholerae hemolysin oligomer
1250-1305	R. Agarwal	High Pressure Freezing of cyanobacteria for immunolocalization studies
<b>Session - 9B Chair: S. Hata Co-chair: U. D. Kulkarni</b>		
1105-1130	K. Bhanumurthy	Interfacial Microstructural of diffusion bonded Fe-Al diffusion couples
1130-1150	S. K. Sen	Micro structural characterization of special steels and cast Al-Mg-Al <sub>2</sub> O <sub>3</sub> particle composites
1150-1210	R. S. Dutta	Formation of epsilon martensite phase in cold worked Alloy 800
1210-1230	G. Sharma	Microstructural Evolution during High Temperature Deformation in Iron Aluminide Intermetallic
1230-1250	Deep Prakash	Microstructural Characterization of SOFC Materials and Components
1250-1310	D. Chakrabarti	Microstructural variation in controlled rolled HSLA steel
<b>Session - 9C Chair: C. Suryanarayana Co-chair: Gouthama</b>		
1105-1130	I. Samajdar	Crystallographic Texture & Microtexture: Glimpses of Research Activities From IIT Bombay
1130-1150	V. Kain	Application of Atomic Force Microscopy to study corrosion degradation of metallic
1150-1210	A. Biswas	Probing the Nanostructural Evolution of Age-hardenable Al Alloys with Atom-Probe Tomography
1210-1230	R. Kishore	Measurement of elastic modulus in a 92% dense LiTiO <sub>3</sub> through Nanoindentation technique
1230-1250	P. Pant	Deformation studies using Nanoindentation and EBSD
1250-1310	S. Karthikeyan	Microstructural stability of gamma-TiAl based alloys during creep
<b>Session - 9D Chair: G. V. S. Sastry Co-chair: D. Srivastava</b>		
1105-1130	Richard Shin	Desktop Mini-SEM
1130- 1150	R. Tewari	Lave Phase Precipitation in in Nb-and Ti based Alloys
1150- 1210	J.B. Singh	Analytical TEM of a nanocomposite layer formed on a Cu-Ni-Sn bronze alloy: A comparison of EDS and EELS spatial resolution
1210- 1230	B. C. Maji	Role of Si in improving the shape recovery of Fe-based shape memory alloys
1230-1250	A. Laik	Microstructure and Interfacial Behaviour of Alumina/Inconel 600 Joints Prepared by Brazing Route
<b>1305 - 1400</b>	<b>LUNCH</b>	
<b>Parallel Sessions - 10</b>		
<b>Session - 10A Chair: D. Das Co-chair: R. C. Kothari</b>		
1400-1420	T.R.G. Kutty	Microstructural evaluation of ThO <sub>2</sub> -UO <sub>2</sub> fuels made by six different routes
1420-1440	S. Majumdar	Microstructural development during sintering of molybdenum and TZM alloy compacts
1440-1500	S.K. Sahoo	Effects of ternary omega-Phase on the Deformed Microstructures of Two-Phase Zr-2.5Nb Alloy
1500-1515	J.S. Tawale	Electron Microscopy and Spectroscopy of ZnO nanostructures
<b>Session - 10B Chair: G. J. Prasad Co-chair: N. Saibaba</b>		
1400-1420	S.K. Jha	Investigation on gamma phase stability in U-9 wt% Mo alloy
1420-1440	S. Kumar	Scanning Electron Microscopy And Its Application In Reactor Structural Materials Performance / Failure Analysis
1440-1500	S. Neogy	Metastable phase transformations in beta-phase of Zr-1wt. %Nb alloy
1500-1515	J.S. Dubey	Fracture Morphology in Irradiated Indian PHWR Fuel Clads
1515-1530	J. Mittra	TEM study of various dislocation-precipitate interactions in Alloy 625
<b>Session - 10C Chair: I. G. Sharma Co-chair: R. S. Dutta</b>		
1400-1420	M. Singh	Comparative study of nano and bulk magnetic particles
1420-1440	Sudarshan	TEM studies on luminescent nano-materials with different shapes
1440-1500	S. Mazumder	Phase separation kinetics investigated by scattering technique
1500-1515	D. Sen	Hierarchically structured composite grains synthesized by evaporation induced self assembly of nanoparticles: Mesoscopic structural investigations using SEM and SANS
1515-1530	P. Tiwari	Formation of superlattice in Metal Oxide nanowires grown by thermal annealing technique
<b>Session - 10D Chair: R. P. Tandon Co-chair: R. Tewari</b>		
1400-1420	A. K. Tyagi	Rare-earth based functional materials: Synthesis and characterization
1420-1440	R. Datta	Aberration corrected TEM characterization of graphene analogues BCN, BN, MoS <sub>2</sub> and WS <sub>2</sub>
1440-1455	P. Tyagi	Nucleation and Growth in PbI <sub>2</sub> thin films
1455-1510	H. Srivatava	Formation of superlattice in Metal Oxide nanowires grown by thermal annealing technique
<b>1600- 1615</b>	<b>TEA</b>	
<b>1615-1715</b>	<b>Discussion and Awards</b>	