

(26) Spectroscopy

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DETAILED PROGRAMME**Friday, 20-12-2013****Session I : 10.15 – 11.15**

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| 10.15 - 10.30 Oral (1) | <u>Ravikumar Dumpala</u> B. Ramamoorthy and M. S. Ramachandra Rao | ABS - 263 - ICA A study on integrity and scratch adhesion characteristics of nano- and micro-crystalline composite CVD diamond coatings using Raman spectroscopy |
| 10.30 - 10.45 Oral (2) | <u>Shankar Dutta</u> Akhilesh Pandey Tulana Saha Milap Singh K K Jain, Ramjay Pal and Ratnamala Chatterjee | ABS - 332 - ICA Estimation of Residual Stress in Electroplated Gold layers by X-ray Diffraction |
| 10.45 - 11.00 Oral (3) | <u>Shankar Dutta</u> Akhilesh Pandey Leeladhar Sandeep Dalal and Ramjay Pal | ABS - 332a - ICA Growth and X-ray characterization of Ultrathin TiO ₂ films on Silicon |
| 11.00 - 11.15 Oral (4) | <u>Navnita Kumari</u> Arindam Ghosh Ayon Bhattacharjee | ABS - 336 - ICA Structural and optical properties of pure and Ru doped SnO ₂ nanoparticles |

Session II : 11.45 – 13.15

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| 11.45 - 12.00 Oral (5) | <u>S. Dhara</u> Prasana Sahoo Avinash Patsha Kishore K. Madapu A. K. Tyagi | ABS - 340 - ICA Raman Spectroscopic Imaging of III-V Nitride Nanostructures |
| 12.00 - 12.15 Oral (6) | <u>S. Tripura Sundari</u> R. Ramaseshan S. Dash and A.K.Tyagi | ABS - 447 - ICA Plasma frequency behavior in ZrN thin films by ellipsometry |
| 12.15 - 12.30 Oral (7) | <u>Ghatu Subhash</u> | ABS - 453 - ICA Raman Spectroscopy for Characterization of Biaxial Residual Stresses and Phase Transformations in Ceramics |
| 12.30 - 12.45 Oral (8) | Debanjan Polley Arnab Ganguly Anjan Barman <u>Rajib Kumar Mitra</u> | ABS - 624 - ICA Aligned Nanoparticles can act as a Potential Polarizer in the Terahertz Frequency Region |

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| 12.45 - 13.00 Oral (9) | Neha Gupta <u>Sugandha Dogra Pandey</u> Jasveer Singh Kousik Samanta T D Senguttuvan Nita Dilawar Sharma & A.K. Bandyopadhyay | ABS - 881 - ICA Raman Spectroscopic Study of thermoelectric Cu_3SbSe_3 nanoparticles |
| 13.00 - 13.15 Oral (10) | <u>Sugandha D Pandey</u> Jasveer Singh Nita D. Sharma K. Samanta and A.K. Bandyopadhyay | ABS - 881a - ICA Anharmonic behavior of CeO_2 |

Session III : 14.00 – 15.30

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| 14.00 - 14.15 Oral (11) | <u>Rashmi</u> | ABS - 893 - ICA Hundred Years of X-ray Spectrometry |
| 14.15 - 14.30 Oral (12) | <u>S. K. Mahatha</u> and Krishnakumar S. R. Menon | ABS - 945 - ICA Quantum well states in Ag thin films on MoS_2 (0001) surfaces |
| 14.30 - 14.45 Oral (13) | <u>A. Bute</u> , Pritty Rao Jagannath S. S. Chopade N. Chand, R. Kar, M. N. Deo Sanjiv Kumar A. K. Das, L. M. Gantayet and D. S. Patil | ABS - 986 - ICA XPS studies on B_xC_y thin films deposited by Plasma CVD: Effect of Methane addition during deposition |
| 14.45 - 15.00 Oral (14) | <u>R. Krishnan</u> D. Nanda Gopala Krishna S. Amirthapandian T R Ravindran S. Dash and A. K. Tyagi | ABS - 1043 - ICA Quantification of four-fold coordination (sp^3) fraction for PLD grown DLC thin films through Raman Spectroscopic, EELS and XPS Studies |
| 15.00 - 15.15 Oral (15) | <u>S. S. Chopade</u> K.H.Thulasi Rama N. Chand M. N. Deo, A. Biswas Sanjay Rai, G. S. Lodha G. M. Rao, and D. S. Patil | ABS - 1066 - ICA Plasma Assisted Metal Organic Chemical Vapour Deposition and Characterization of Ytria stabilized Zirconia thin films |
| 15.15 - 15.30 Oral (16) | <u>P. Sriyutha Murthy</u> P. Sahoo, Arindam Das S. Dhara, S. Venkatnaryanan S. Sathya, R. Kirubakaran and V. P. Venugopalan | ABS - 1178 - ICA Probing the Action of Chlorine Down to Single Bacterial Cell Using Raman Spectroscopy |

Session IV : 16.00 – 18.00

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| 16.00 - 16.15 Oral (17) | <u>Soumik Siddhanta</u> Dhanasekaran Karthigeyan Tapas K. Kundu and Chandrabhas Narayana | ABS - 1181 - ICA Surface enhanced Raman spectroscopic studies on protein-small molecule interactions |
| 16.15 - 16.30 Oral (18) | <u>Bushra Irfan</u> Satyaprakash Sahoo Maxime J-F Guinel Ram S. Katiyar and Ratnamala Chatterjee | ABS - 1241 - ICA Temperature dependent Raman study of phonons of different symmetries in single crystal Bi_2Se_3 |
| 16.30 - 16.45 Oral (19) | <u>Sanjai Kanojia</u> Alok K. Srivastava Kingsuk Mukhopadhyay Arvind Saxena | ABS - 1652 - ICA SERS studies of electrochemically grown isolated silver nanoferns |

Poster Session :

Thursday, 19-12-2013, 14.00 - 15.30 Hrs.

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| 26 - Poster - 01 | Chandrabhas Bharti Mrinmoy K. Das A. Sen, Sadhan Chanda and T. P. Sinha | Rietveld refinement, FT-IR and impedance spectroscopy of rare earth ordered double perovskite oxide: BaPrCoNbO_6 | ABS - 294 - ICA |
| 26 - Poster - 02 | Debanjan Polley Anjan Barman Rajib Kumar Mitra | THz Shielding Efficiency of Carbon Nanotubes in Polymer Film | ABS - 335 - ICA |
| 26 - Poster - 03 | Y. Rangeela Devi and S. Dorendrajit Singh | Fading characteristics of thermoluminescence peaks of BaSO_4 : Dy, Mn phosphor | ABS - 392 - ICA |
| 26 - Poster - 04 | Sandip V. Bhatt M. P. Deshpande Vasant Sathe Rekha Rao S. H. Chaki | Pressure and temperature dependence of Raman spectra and their anharmonic effects in Bi_2Se_3 single crystal | ABS - 499 - ICA |
| 26 - Poster - 05 | S. Sarkar and U. Jana | Exploring Synthesis and Characterisation of Biologically Useful Organic Fluorophores and Their Interaction with Protein Molecules | ABS - 514 - ICA |
| 26 - Poster - 06 | N.J. Shivaramu B.N. Lakshminarasappa K.R. Nagabhushana Fouran Singh | Luminescence studies of 100 MeV swift Si^{8+} ion irradiated nanocrystalline Dy doped Y_2O_3 | ABS - 519 - ICA |
| 26 - Poster - 07 | Samik Roy Moulik Sudeshna Samanta Barnali Ghosh | Observation of Photoconductivity in Nanostructured thin film and nanorods of WO_3 at Room Temperature | ABS - 609 - ICA |
| 26 - Poster - 08 | Mahendra M. Khandpekar and Smita S. Patil | FTIR, FT-Raman and UV Spectroscopic Studies of L-arginine Potassium Sulphate Crystals | ABS - 702 - ICA |
| 26 - Poster - 09 | Y. Oba, M. Hino T. Oda, M. Ohnuma N. Sato and M. Sugiyama | Upgrade of Small-Angle Neutron Scattering Instrument KUR-SANS for Metallic Materials | ABS - 875 - ICA |

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| 26 - Poster - 10 | N.Sudharsana V.Krishnakumar and R.Nagalakshmi | Growth and Characterization of optically active 8 hydroxyquinolinium-3, 5-dinitro benzoatesingle crystal | ABS - 891 - ICA |
| 26 - Poster - 11 | Meera Rawat Manjusha, K. L. Yadav | Structural and Impedance Spectroscopic Studies of $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{Ba}_{1-x}\text{TiO}_3$ Ferroelectric Ceramics | ABS - 967 - ICA |
| 26 - Poster - 12 | Premlata Kumari Alo Dutta S. Prasad, T. P. Sinha | Dielectric relaxation of $\text{Ca}_2\text{LaTaO}_6$ | ABS - 1063 - ICA |
| 26 - Poster - 13 | Venkata Srinu Bhadram B.Rajeswaran, Dhanya R, A. Sundaresan and Chandrabhas Narayana | Temperature and pressure dependent Raman studies on RCrO_3 (R = rare-earth) | ABS - 1074 - ICA |
| 26 - Poster - 14 | Dhanya R, S. Das A. J. Bhattacharyya C. Narayana | Brillouin Scattering Studies on Alkylmethyl-pyrrolidinium Trifluoromethanesulfonyl Imide Based Ionic Liquids | ABS - 1079 - ICA |
| 26 - Poster - 15 | Daly Paul K.N.Anuradha Geetanjali Singh and S.V. Bhat 3 | Searching for Evidence of Charge Order in $\text{Nd}_{0.65}\text{Ca}_{0.35}\text{MnO}_3$ Nanomanganite | ABS - 1102 - ICA |
| 26 - Poster - 16 | Ramakanta Naik EM Vinod R.Ganesan | Light induced optical changes in $\text{As}_{40}\text{Se}_{53}\text{Sb}_7$ amorphous glassy thin films. | ABS - 1104 - ICA |
| 26 - Poster - 17 | Harshita Singha Swapnil Singha Anubha Srivastavaa Poonam Tandon Purnima Bhartia | Structural, electronic and charge transfer properties of an Isoflavon Daidzein using vibrational spectroscopy (FT-IR, FT-Raman) and DFT calculations | ABS - 1396 - ICA |
| 26 - Poster - 18 | T.N. Sairam B. Ramachandran and M.S. Ramachandra Rao | Low Temperature Infrared Absorption Studies on doped and undoped BiFeO_3 | ABS - 1440 - ICA |