

MRC DAY- 18th February 2012

Schedule

- 09:30hrs - Welcome note
09:40hrs - Address by The Chairman, MRC and release of the MRC brochure

Technical Sessions:

09:45-11:00hrs - **Theme I: Thin films and devices**

09:45-10:00hrs- Mohana K Rajpalke - Polar and nonpolar III - nitrides by plasma assisted MBE

10:00-10:15hrs- Pallavi Arod - Synthesis and characterization of CNT- Metal Oxide nano-composite thin films by MOCVD

10:15-10:30hrs- Somenath Bose - Activation of Schottky-type internal electrical barriers in nano-crystalline BiFeO₃ thin films with Al₂O₃ additive

10:30-10:45hrs- Anirudha Jena - Growth of Cobalt Oxide (Co₃O₄) Thin Films via MOCVD Promoting their Sensing Performance towards Ethanol Vapors

10:45-11:00hrs- K.V.L.V. Narayanachari - On oriented growth of sputtered YSZ thin films

11:00-11:30hrs - Coffee Break

11:30-12:45hrs - **Theme II: Functional Ceramics**

11:30-11:45hrs- Preethi Meher - Ferroic characteristics of double perovskite Sr₂TiMnO₆

11:45-12:00hrs- Ankur Goswami - Poly-HDDA microstructure fabrication using Microstereolithography for micro-cantilever based sensor technology

12:00-12:15hrs- Paramesh G - Dense 2Bi₂O₃-B₂O₃ glasses and their non-linear refraction

12:15-12:30hrs- Nidhi Lal - Synergistic cytotoxicity of ZnO/Ag nanohybrids towards prokaryotic and eukaryotic cells

12:30-12:45hrs- Suresh Perumal - Enhanced Thermoelectric Properties in nanostructured Silicon rich higher Manganese Silicide

12:45-14:00hrs - Lunch

14:00-15:30hrs - **Poster Session / Coffee**

15:30-16:45hrs - **Theme III: Nanostructures**

15:30-15:45hrs- Swastibrata Bhattacharyya - Effect of edge structures on edge energy and stress of BN nanoribbons

15:45-16:00hrs- Sugavaneshwar R P - Synthesis and characterization of carbon doped ZnO nanostructures

16:00-16:15hrs- Anumol E A - New Insights into Selective Heterogeneous Nucleation of Metal Nanoparticles on Oxides by Microwave-Assisted Reduction: Rapid Synthesis of High-Activity Supported Catalysts

16:15-16:30hrs- S. Dhayalan - Silicon Nanowires: Growth & Kinetics

16:30-16:45hrs- Gopal Krishna Goswami - Synthesis of Pt-free catalyst for the development of cost effective direct alcohol fuel cell

17: 00: Concluding Session

17: 30: High Tea