***International Symposium on***

**Advanced Materials for Industrial and Societal Applications (IS – AMISA)**

Wednesday, 13th November, 2019, Vizhinjam & Light House Halls, Uday Samudra Resort

**Programme**

| Time | Programme |
| --- | --- |
| **0800** | **0900** | **Registration** |
| **0915** | **1045** | **Inauguration** |
|  | 0920 | Invocation and Welcoming with flowers |
|  | 0925 | *Welcome Address* – **Dr. P. V. Venkitakrishnan**, Director, CBPO,ISRO HQ & Chairman, Core Organising Committee (COC) |
|  | 0930 | *Lighting of Lamp* |
|  | 0935 | *About International Symposium* – **Dr. R. Divakar**, Head, PIED & MDTD, IGCAR & Convenor, IS-AMISA |
|  | 0940 | *Presidential Address* – **Dr. U. Kamachi Mudali**, Chairman & Chief Executive, HWB & President, Indian Institute of Metals |
|  | 0950 | *Inauguration of International Symposium* by Chief Guest: **Prof. Srikumar Banerjee**, Chancellor, Homi Bhabha National Institute, DAE |
|  | 1010 | *Vote of Thanks* - **Dr. P. Ramesh Narayanan**, GM, VSSC & Convener, COC |
| 1015 | 1045 | *Break for High-Tea* |
| 1045 | 1130 | Plenary Lecture –*Materials for Advanced Energy Systems*, **Prof. S. Banerjee**, Chancellor, Homi Bhabha National Institute, DAE |
| **1130** | **1300** | Panel Discussion on*Key Drivers for Development and Adoption of Advanced Materials and Technologies for Industrial and Societal Applications*,Moderator: **Dr. Sanak Mishra**, President, INAEPanelists: Dr. C. G. Krishnadas Nair, Dr. M. Narayana Rao, Dr. R. N. Patra, Mr. S. S. Mohanty |
| 1300 | 1400 | *Lunch* |
|  |  | **Session A (Vizhinjam Hall)****(Chair: Prof. K. Chattopadhyay)** | **Session B (Light House Hall)****(Chair: Shri L. Pugazhenthi)** |
| 1400 | 1430 | KLA1 – *Towards Achieving the Goals of Circular Economy in Materials Manufacturing*, **Prof. Brajendra Mishra**, Worcester Polytechnic Inst., USA | KLB1 – *The rapid development of new materials*, **Prof. R. V. Ramanujan**, Nanyang Technological University, Singapore |
| 1430 | 1500 | KLA2 – *Zinc alloy and nano-composite coatings for corrosion protection: From the basics to new challenges*, **Dr. Michael Rohwerder**, Max-Planck Institute, Germany | KLB2 – *High Temperature Receivers and Thermal Storage Systems for Concentrating Solar Power,***Prof. Pradip Dutta**, Indian Institute of Science, Bangalore  |
| 1500 | 1530 | KLA3 – *Disruptions in Materials for Mobility*, **Dr. Debashish Bhattacharjee**,TATA Steel, Kolkata | KLB3 – *Progress in alloy and process development of magnesium-based materials for new fields of application*, **Prof. Karl Kainer**, Magnesium Innovation Centre, Germany |
| 1530 | 1600 | *Tea Break* |
| 1600 | 1630 | KLA4 – *Advanced Materials and Systems for Space Applications*, **Dr. S. Somanath**, Vikram Sarabhai Space Centre, Trivandrum | KLB4 – *Total Value Chain Development for Rare Earth Permanent Magnets in India***Dr. Amol A. Gokhale**, IIT Bombay, Mumbai |
| 1630 | 1700 | KLA5 – *Challenges and Opportunities in Steel making and Hot rolling of Line pipe steel for clean steel technology and low temperature toughness*, **Dr. Devashish Mishra**, JSW Steel Ltd., Bellary | KLB5 – *Light-weighting of metals by new severe plastic deformation processes that are candidates for industrialization*, **Prof. Laszlo S. Toth**, University of Lorraine, France  |
| 1700 | 1730 | KLA6 – *Additive Manufacturing via Thermal Spray Technologies: Transforming Science into Industrial Applications*, **Prof. C. C. Berndt**, Swinburne Univ. of Technology, Australia | KLB6 – *Advanced Functional Materials Research @CSIR-NIIST***Dr. A. Ajayaghosh**, National Institute for Interdisciplinary Science and Technology, CSIR, Trivandrum |
| 1730 | 1800 | KLA7 – *Interfacial Modification in Nanocomposites to Tailor Functionalities*, **Prof. Sabu Thomas**, Mahatma Gandhi University, Kottayam | KLB7 – *Nanocerium Oxide: From Metallurgy to Medicine*, **Prof. Sudipta Seal**, University of Central Florida, USA  |
| 1800 |  | *Summary of International Symposium (Vizhinjam Hall)* – **Dr. S. C. Sharma**, Deputy Director, VSSC & Co-Chairman, COC |