

PRML 2018 Report

Dr.Placid Rodriguez Memorial Lecture – 2018 The Indian Institute of Metals, Kalpakkam & Chennai Chapters

The *10th Placid Rodriguez Memorial Lecture* was organized on *05th October 2018* at *IC&SR Auditorium, IIT Madras, Chennai*, jointly by Kalpakkam and Chennai Chapters of Indian Institute of Metals. Dr. Srinivasa Rao Bakshi, Chairman, IIM Chennai Chapter welcomed the gathering and Dr. M. Kamaraj, Member, PRML Committee, briefly dwelt upon the genesis of Dr. Placid Rodriguez Memorial lecture and the details of the series of lectures conducted since 2009. Dr. U. Kamachi Mudali, Vice President, IIM, Chairman & Chief Executive, HWB, Mumbai in his presidential address recollected the significant contributions of Dr. Placid Rodriguez to the materials development for Fast Reactor programme of the country and in shaping up human resources for defence programmes and academic institutions. Dr. R. Divakar, Chairman, IIM Kalpakkam Chapter introduced the PRML 2018 speaker Dr. Samir V. Kamat, the Director General of Naval Systems and Materials, working on the development of various advanced materials for defence applications.

In his PRML 2018 lecture titled “*MATERIALS FOR FUTURE DEFENCE SYSTEMS: AEROENGINES*” Dr. Samir V. Kamat stressed that the materials for future defence systems will be required to satisfy diverse requirements in terms of speed, strength, precision, survivability, signature, materials selection, cost, weight, and commonality. The speaker focused on materials technologies for military gas turbine aeroengine which is one the most complex and cutting edge defence system powering all fighter aircraft and where advancement in materials have the most significant impact. He presented the three main fronts along which the improvement and development of materials for aeroengine applications is developing: the improvement of current material properties by refining composition and novel processing methods for new applications; the application of current materials in new and novel structures and the development of new materials. Dr. Samir V. Kamat summarized his excellent talk by stressing the significance of Integrated Computational Materials Engineering (ICME) in converting material capabilities to delivery of hardware for military aeroengines as well as other defence systems.

The lecture was very well received by the 100-strong audience comprising scientists, and young research scholars who participated in the event. Dr. U. Kamachi Mudali presented the PRML memento to Dr. Samir V. Kamat and the programme concluded with a vote of thanks by Dr. Rani P. George, Convener, PRML 2018, followed with high tea.



Dr. Samir V. Kamat delivering PRM Lecture and lecture notes released by guest of honor Dr. V. Jagadeesh Kumar, Dean (Academic Courses), IIT Madras