

Avinashilingam Institute for Home Science and Higher Education for Women

Faculty of Engineering

Department of Science and Humanities

&

Department of Civil Engineering

Diamond Jubilee Celebrations

Report of the National Conference on Meeting the Challenges of Corrosion

The Department of Science and Humanities, Faculty of Engineering organized a National Conference on 'Meeting the Challenges of Corrosion' on 07.12.17. Dr.S.Muralidharan, Retd.Senior Principal Scientist, CSIR-Central Electrochemical Research Institute, Karaikudi, delivered the keynote address in which he stressed on the need of awareness on corrosion and quoted examples from our daily lives.



Welcome Address by Dr.S.Maragatham, Dean, Engineering



Dr.S.Muralidharan's keynote address

The first session was handled by Dr.S.Muralidharan, Retd.Senior Principal Scientist, CSIR-Central Electrochemical Research Institute, Karaikudi who talked on 'Combating corrosion-An electrochemical approach'. He talked about the basic principles of corrosion, different types, particularly the electrochemical mechanism through which different types of corrosion occurs. He highlighted the role of nanomaterials in preventing corrosion.



Dr.S.Muralidharan's Speech about corrosion



Release of Proceedings

Dr.S.Sathiyarayanan, Senior Principal Scientist, CSIR-Central Electrochemical Research Institute, Karaikudi addressed the gathering. He gave a detailed account of the corrosion monitoring techniques used for detecting corrosion. He highlighted the three types of monitoring techniques namely non electrochemical, electrochemical and nondestructive testing methods, their advantages and disadvantages.

Dr.K.R.Ravi, Associate Professor, Department of Metallurgical Engineering, PSG Institute of Advanced Studies explained the use of magnesium alloys as temporary orthopedic devices that support a healing bone which can then be absorbed by the body after the desired duration. He stressed on the designing approach of these materials to reduce their susceptibility to stress cracking.

Dr.R.Saratha, Professor, Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore chaired the technical paper presentations. There were 13 papers published in the Proceedings and total number of participants were 80 in number. There were representations from Nirmala College of Arts and Science, PSGR Krishnammal College of Arts and Science and Sri Krishna College of Technology.