RODDAM NARASIMHA DISTINGUISHED LECTURE

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Academic Building 1/102
IIT Gandhinagar
Palaj, Gandhinagar 382355

Role of Advanced Materials in Transforming India into a Global Leader

Prof B S MURTY

Institute Professor and Girija & R Muralidharan Chair Professor
Department of Metallurgical and Materials Engineering
Indian Institute of Technology Madras

ABSTRACT

Materials are the backbone of the development of any country. The importance of materials has been realized from time immemorial to the extent that the civilizations are named after materials such as “stone-age”, “bronze-age”, “silicon-age”, etc. It has been proven over centuries that the countries that have advanced in the development of superior materials have become economically stronger and have become power centres in the world. It is important for India to focus on the development and application of advanced materials for it to become a global leader. Centuries before any of the current leading economies of the world were born, India had a great heritage in materials and has been an epicenter of advanced materials development. It is important that India focuses on the development of advanced materials for health care, energy security, infrastructure, transport, etc., for it to reinvent itself as a global leader. The speaker, in his talk, would focus on a few examples of advanced materials with immense potential that can transform India into an enviable position globally.

ABOUT THE SPEAKER

Dr B S Murty is an Institute Professor and Girija & R. Muralidharan Chair Professor at the Department of Metallurgical and Materials Engineering, IIT Madras. He obtained his PhD (1992) from IISc, Bangalore. He was a faculty at IIT Kharagpur during 1992-2004 before joining IIT Madras in 2004. He is also an Adjunct Professor at Ryerson University, Toronto, Canada and an Associate faculty of School of Engineering, University of British Columbia, Canada. His research interest is in physical metallurgy and specializes in understanding structure-property correlation for advanced nanocrystalline and amorphous materials. He has authored more than 350 research articles, filed 18 patents, published three books and handled over 50 sponsored research projects. He is a recipient of Shanti Swarup Bhatnagar Award (2007) and Felllow of Asia Pacific Academy of Materials, Indian National Science Academy, ASM International, Indian Academy of Sciences, National Academy of Sciences, and Indian National Academy of Engineering. Prof. Murthy has also been awarded Honorary Doctorate from Deakin University, Australia (2017), Life time Achievement Award of IIT Madras (2016) and Metallurgist of the Year Award (2004).