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BOSE-125 PUBLIC LECTURE

13TH NOVEMBER, 2018 | 4:00 PM

MEGHNAD SAHA AUDITORIUM, SINP, KOLKATA

Organized by | **S. N. Bose National Centre for Basic Sciences**

:: Speaker ::

Dr. Srikumar Banerjee

Bhabha Atomic Research Centre and Homi Bhabha National Institute, Mumbai

:: Title ::

New Energy Paradigm for Ensuring Energy Security and Mitigating Climate Change

Abstract:

Providing adequate energy supply for meeting the growing aspiration of the people without causing a strain on environment is a major challenge the country is facing today. In this context, the importance of non-fossil primary energy sources namely solar, wind, hydro and nuclear energy can not be over emphasised. The complementary roles they play in the optimum energy basket will be discussed. Sun shine and thorium are two gifts nature has given to this country in abundance. Technological challenges in harnessing these energy forms in an appropriate manner will be elaborated and it will be shown that their utilization can eventually make the country energy independent.

About the Speaker:

Dr. Srikumar Banerjee is currently the DAE Homi Bhabha Chair Professor at Bhabha Atomic Research Centre, Mumbai. He was previously the Chairman Atomic Energy Commission of India and the Secretary of Department of Atomic Energy. Prior to his stint as DAE Chairman, he was the Director of Bhabha Atomic Research Centre.

Dr. Srikumar Banerjee is internationally well known for his work in the field of physical Metallurgy and Materials Science. He has contributed extensively in the basic research on metallurgy of zirconium and titanium based alloys and their applications in the development of thermo-mechanical treatments for processing several nuclear reactor components.

His work provides a basis for analyzing the radiation stability of structural materials in nuclear reactors. The contribution of Dr. Banerjee and his colleagues with regard to the development of shape memory alloys and their applications in heat shrinkable couplings are finding extensive applications in the light combat aircraft project.

Dr. Banerjee has been the recipient of Government of India's civilian award, Padma Shri, Shanti Swarup Bhatnagar Award, G. D. Birla Gold Medal of the Indian Institute of Metals, INSA prize for Materials Science, Indian Nuclear Society Award and many others. Notable among the international awards received by him are Acta Metallaurgica Outstanding Paper Award and Humboldt Research Award. Dr Banerjee is a fellow of The World Academy of Sciences (TWAS), Indian National Science Academy, Indian Academy of Sciences, Indian National Academy of Engineering and the National Academy of Sciences.