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## **Tan Chin Tuan Centennial Professor Shares His Expertise on Nanotechnology**



Nanotechnology, a cutting-edge technology that opens up new horizons for energy generation and storage is seen as a viable solution for energy sustainability. With increased reliance on technology for mobile communications and domestic applications, energy consumption has been on the rise. By releasing energy only when capacitors are connected into the circuits, Nanotechnology, thus ensures better energy production, storage, transmission and usage.

An expert and an eminent researcher with expertise on Nanotechnology, Visiting Professor Gehan Amaratunga gave an insight into “Nanotechnology for Energy” at NTU’s Tan Chin Tuan Lecture Theatre. During his lecture, the professor focused on the performance enhancement of energy storage devices such as batteries and supercapacitors through the deployment of nanostructures. His public lecture attracted over 200 people comprising faculty, researchers, staff, students and industry partners.

Professor Amaratunga’s appointment as the Tan Chin Tuan Centennial Professor in April 2012 is a value-add to NTU’s academia, students, research community and related industries in Singapore. His core research is on developing energy saving electronic devices, circuits and systems. He is currently attached to the Division of Power Engineering, School of Electrical and Electronic Engineering, College of Engineering.

His presence here will empower many in NTU to tap on his knowledge and expertise on Nanotechnology. Similarly students too can learn first-

hand about developing energy-saving devices using Nanotechnology.

Professor Amaratunga is the second academic to be awarded the Tan Chin Tuan Centennial Professorship. This award recognises prominent academic who have made significant contributions to research and education in any field of engineering.

In 2008, a gift of \$5M by the Tan Chin Tuan Foundation (plus 1:1 matching by Singapore Government), made possible the Tan Chin Tuan Centennial Professorship in perpetuity.



*(from L to R): Prof Tay Beng Kang, Associate Dean (Research)-CoE; Prof Cheng Tee Hiang, Acting Chair-EEE; Ms Kirsten Law, Programme Manager-Tan Chin Tuan Foundation; Prof Cham Tao Soon, Senior Advisor to President-NTU & Board Member-Tan Chin Tuan Foundation; Prof Gehan Amaratunga-Tan Chin Tuan Centennial Professor and A/P Rusli, Associate Chair (Graduate Studies)-EEE*