Institute Lecture

Prof. Pulickel M. Ajayan

Rice University, Houston (USA)

Nano-Engineered Materials

@ 5.30 pm | Wednesday, January 8, 2020

Venue: L 17 (LHC)

About the Talk

Recent developments in materials science have seen spectacular discoveries in nanotechnology. This talk will focus on some of these developments featuring the challenges and opportunities in designing and synthesizing nano-engineered materials. I will describe several examples to show the intrinsic and extrinsic challenges in the engineering of nanomaterials. These will include the exciting world of carbon nanotubes, graphene and related two-dimensional atomic layers, hybrid nanomaterials and nanocomposites.

Several aspects including synthesis, characterization, manipulation and the emergence of novel properties in such materials will be discussed. The talk will present a perspective on the concept of nanoscale engineering and the resultant opportunities for nano-engineered materials.

About the Speaker

Pulickel M. Ajayan is a pioneer in the area of nanotechnology. He has published more than 1100 journal papers earning more than 100,000 citations and h-index of 155 (ISI Web of Science database). His work covers diverse areas of nanomaterials including nanoparticles, nanotubes, 2D materials, nanocomposite and energy storage materials. He is the Benjamin M. and Mary Greenwood Anderson professor of Engineering at Rice University and the founding chair of the department of Materials Science and NanoEngineering. Prof. Ajayan is the recipient of several awards such as the Spiers memorial award, MRS medal, Alexander von Humboldt-Helmoltz senior award, and lifetime nanotechnology award from the Houston Technology Center. He received Docteur Honoris Causa from the Universite Catholique de of Louvain and distinguished alumni recognition from his Alma Mater Banaras Hindu University and the Materials Science department at Northwestern University.

All are invited to attend

Dean of Research and Development