Seminar

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Institute for Plasma Research

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Title: Ceramic Technology: Art, Science, Technology, or Innovation?

Speaker: Prof. Santanu Bhattacharyya
National Institute of Technology, Rourkela

Date: 30th September, 2024 (Monday)

Time: 02:00 PM

Venue: Seminar Hall, IPR

Abstract

Ceramics (origin Latin word *Keramos* implying “burnt clay”), is the oldest technology associated with the development of human civilization. Homo sapiens learnt the use and benefits of ceramics as pottery, almost the same time they became cave dwellers and much before they learnt the use of metals. Pottery could be traced before the Neolithic period, with ceramic objects like figurine discovered in the Czech Republic dating back to 29,000–25,000 BC. With that humble beginning, Ceramics have slowly but steadily developed into one of the most fascinating technologies of the modern materials world. On a lighter note, today, every person in this world, starts their day with a touch of ceramics- be it in the form of screen guard of his cell phone, as container of bed tea, as a sanitary ware component in the wash room or kitchen or on the breakfast table, as the toughened wind screen of his Cadillac, as the well illuminated polished floors or as day light saving large and heat shielding window panes of his corporate office so on and so forth. This talk will take the audience through the journey of those developments from a common man’s perspective and will try to showcase how the “burnt clay” has not only turned itself into a very important member of the materials world but also it has surpassed the definition of an “inter-disciplinary” material to an “inter-planetary material”

***About the Speaker*:**

Prof. Santanu Santanu Bhattacharyya completed his PhD from IIT Kanpur before joining NIT Rourkela in 1995. Since his Masters, he has been working on Ceramic Processing, Alumina and alumina based ceramics, Transformation Toughened Ceramics. His research interests include conventional and innovative ceramic processing, porous ceramics, transformation toughened ceramics, particulate ceramic composites, mesoporous nanoparticles, and traditional ceramics like porcelain and eco-friendly ceramic processing. Among the courses he has been teaching are Physical Ceramics, Whiteware Technology, Materials Characterization, Bio Ceramics, Process Ceramics, and Structural Ceramics etc.