



Centenary Lecture Series-1

Prof. Raman Singh Delivers Inaugural Lecture at IIT (ISM) Dhanbad's Centenary Lecture Series

IIT (ISM) Dhanbad, in celebration of 100 years of academic excellence, inaugurated its prestigious Centenary Lecture Series with a distinguished lecture by **Prof. Raman Singh**, Fellow of ASM International (FASM) and Fellow of Engineers Australia (FIEAust), from the Departments of Mechanical & Aerospace Engineering and Chemical & Biological Engineering at Monash University, Melbourne, Australia.

Prof. Singh delivered an enlightening lecture on “**Graphene Coatings: A Disruptive Approach to Corrosion Resistance**” at the Department of Mechanical Engineering's Seminar Hall. His presentation highlighted the revolutionary potential of graphene-based coatings in significantly enhancing corrosion resistance, thereby offering innovative solutions to extend the lifespan and performance of critical infrastructure across industries.

The event was graced by **Prof. S. Chattopadhyaya, Head of the Department (Mechanical Engineering), Prof. Alok Kumar Das, Dean (Innovation, Incubation & Entrepreneurship), and Prof. Amit Rai Dixit, Dean (Infrastructure)**, along with senior faculty members. The lecture witnessed enthusiastic participation from students, research scholars, and faculty, fostering vibrant academic discussions.

The event was coordinated by Prof. Abhijeet Sethi, Coordinator, Centenary Lecture Series, Mechanical Engineering Department.

The Centenary Lecture Series at IIT (ISM) Dhanbad aims to bring eminent thought leaders from across the globe to inspire interdisciplinary learning, research excellence, and innovation, as the institute continues its journey into the next century of academic leadership.



About Prof. Raman Singh

Professor Raman Singh's primary research interests are in the relationship of Nano-/microstructure and Environment-assisted degradation and fracture of metallic and composite materials, and Nanotechnology for Advanced Mitigation of such Degradations. He has also worked extensively on use of advanced materials (e.g., graphene) for corrosion mitigation, stress corrosion cracking, and corrosion and corrosion-mitigation of magnesium alloys (including for the use of magnesium alloys for aerospace, energy, defence and bioimplant applications).

Prof Singh is a senior professor at Monash University, Australia. He is/was a Guest Professor at ETH Zurich, Switzerland (2020, 2023, 2024, 2026), US Naval Research Lab, Indian Institute of Science, University of Connecticut, Indian Institute of Technology, Kharagpur. He worked as a scientist at Indian Atomic Energy and as a post-doc fellow at University of New South Wales, Australia.

Prof Singh's professional distinctions and recognitions include: Guest Professor of ETH Zurich, Editor of a book on Cracking of Welds (CRC Press), Lead Editor of a book on Non-destructive Evaluation of Corrosion (Wiley), Editor-in-Chief of an Elsevier and an MDPI journals, leader/chairperson of a few international conferences and numerous plenary/keynote lectures at international conferences, over 285 peer-reviewed international journal publications and 15 book chapter, and several competitive research grants (that includes 4 Discovery, 7 Linkage and one ITRH grants of Australian Research Council).