

The Indian Institute of Metals STUDENTS' CHAPTER NIT DURGAPUR

presents
One Day Seminar
on

BUILDING THE FUTURE WITH GREEN STEEL TECHNOLOGIES

By Speakers




Prof. M. Akbar Rhamdhani
Associate Dean Research, Swinburne
University of Technology, Australia



Dr. Nawshad Haque
Principal Scientist,
CSRIO, Australia

Key Topics of Discussion:

Research Updates on Green Steel in Australia - By Prof. M. Akbar Rhamdhani.
Life Cycle and techno-economic assessment methodology for green steel production technologies - By Dr. Nawshad Haque.

Will also be
broadcasted on  Google Meet Info: <https://meet.google.com/zsk-snfj-fbp>
Or dial: (US) **+1 440-834-2935** PIN: **422 900 310**

 **GOLDEN JUBILEE HALL**

 **FRIDAY**
27.12.2024

 **10:00A.M. onwards**
(IST)



The Indian Institute of Metals

STUDENTS' CHAPTER NIT DURGAPUR



About the Speakers:

Prof. M. Akbar Rhamdhani

Acting Associate Dean (Research), Swinburne University of Technology, Australia

Professor Muhammad Akbar RHAMDHANI is currently the Director of Fluid and Process Dynamics (FPD) Group; and Program Leader of Net Zero Carbon Materials and Processes (Manufacturing Future Research Platform) at Swinburne. He is also leading research at the University on Energy Transition Metals. He is currently the Co Editor-in-Chief of Journal of Sustainable Metallurgy, TMS Springer Nature, USA.

Akbar is a Professor in Extractive Metallurgy and Metals Recycling. Akbar obtained his PhD from McMaster University Canada in Materials Science and Engineering. He has been a teaching-research academic at Institute of Technology Bandung (ITB) and the University of Queensland, before joining Swinburne. Akbar was a Visiting Professor at Katholieke Universiteit Leuven Belgium and Visiting Scientist at CSIRO.

Dr. Nawshad Haque

Principal Scientist, CSIRO, Australia

Dr Nawshad Haque joined CSIRO Energy in 2018. He started with Minerals Division as a Research Scientist (Process Modelling) in 2007. His current research focuses on process, project and technology evaluation applying life cycle assessment (LCA) methodology and techno-economic capabilities using various tools, software and databases. Development of techno-economic models for hydrogen energy systems is the priority project. He also co-ordinates international collaborative research projects on mineral sand and e-waste processing and a training course on mineral processing. A number of PhD projects was completed under his co-supervision.

He contributed to develop a number of novel technologies and flowsheets for 'Mine to Metal' production at CSIRO. His publications and industry reports are widely used internally and externally and assist in decision making. Dr Haque completed his Doctorate with the Department of Chemical Engineering at the University of Sydney on process modelling, simulation and optimisation. He commenced work as a Materials Scientist at New Zealand Forest Research Institute (Scion) and later seconded to CSIRO Forest Biosciences at Clayton to conduct research on drying process simulation and technology evaluation for industries.

