

International Webinar On

# Frontiers in Mining & Geosciences

With special focus on Remote Sensing, Rock Mechanics & Mine Planning

7<sup>th</sup> & 8<sup>th</sup> November, 2020

Organized by

Department of Mining Engineering,  
National Institute of Technology, Rourkela, India



Day 1:

Session I (9.30 AM –1.00 PM)



**Simit Raval**  
UNSW, Australia



**Kapil K Malick**  
Radar Systems and Service



**Niraj Sharma**  
IBM Singapore

Session II (4.00 PM –6.15 PM)



**Rudrajit Mitra**  
RWTH Aachen University, Germany



**Shimin Liu**  
Penn State University, USA

Day 2:

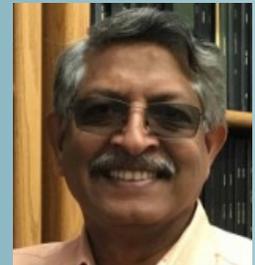
Session I (8.30 AM –12.00 PM)



**S Chatterjee**  
MichiganTech , USA



**Apurna Ghosh**  
Curtin University, Australia



**R Srikant**  
Consultant, India

Session II (4.00 PM –6.15 PM)



**R. M. Bishwal**  
NIT Rourkela, India



**Mustafa Kumral**  
McGill University, Canada

**Registration details:** Click in the google form to Register for the event OR  
<https://tinyurl.com/y26thxzw>

Scan Or  
Click





Day 1: 7<sup>th</sup> November

# Program Details

Day 2: 8<sup>th</sup> November



**Inaugural Address** 9.00 AM– 9.30 AM, 7<sup>th</sup> November

## Remote Sensing for Mining Operations: Opportunities and Challenges

Simit Raval (Keynote Speaker) 9.30 AM– 10.30 AM

## Application of Synthetic Aperture Radar (SAR) data in Earth observation

Kapil K Malick 10.45 AM– 11.45 AM

## Mine Operation and Use cases

Niraj Sharma, Abhishek Kaul, Sandeep Jain 12.00 PM–1.00 PM

## Digitalization initiatives in Rock Mechanics

Rudrajit Mitra 4.00 PM–5.00 PM

## Micropore Dilation and Its Enhancement of Gas Diffusion Through Waterless Cryogenic Treatment

Shimin Liu 5.15 PM–6.15 PM

**GeoR-AI (Geostatistics, Remote Sensing, and Artificial Intelligence): An emerging multi-disciplinary research for Mineral Exploration, Mining, and Environment**  
Snehamoy Chatterjee 8.30 AM– 9.30 AM

## Planning & Design aspects in Transition from open-pit to underground

Apurna Ghosh 9.45 AM– 10.45 AM

## Improving the bottom line through innovations in mine design and operations

Srikant Annavarapu & Yashwanth Reddy 11.00 AM– 12.00 PM

## Integrating Geotechnical Auditing & Benchmarking for Informed Risk Management in Mines

R.M. Bishwal 4.00 PM–5.00 PM

## Mine planning and optimization of hard rock mining operations

Mustafa Kumral 5.15 PM–6.15 PM

### Convenor

Dr. Amit Kumar Gorai

### Co-Convenor

Dr. Ram Manohar Bishwal

### Chief Patron

Prof. Animesh Biswas

### Chairperson

Prof. H.B. Sahu

### Event Co-Coordinator

R.M Bishwal: [+91-8877020745](tel:+91-8877020745)

[bishwalrm@nitrkl.ac.in](mailto:bishwalrm@nitrkl.ac.in)

AK Gorai: [+91-7749006070](tel:+91-7749006070)

[goraia@nitrkl.ac.in](mailto:goraia@nitrkl.ac.in)

### Organized By:

Department of Mining Engineering  
National Institute of Technology Rourkela  
Rourkela, Odisha - 769008, India

**Registration**

