INTERNATIONAL WEBINAR ON

SAFE MINING AND ADVANCED RESOURCES TECHNOLOGY-2020 (SMART-2020)

KEY NOTE SPEAKERS

PROF. NIKOLAUS A. SIFFERLINGER
UNIVERSITY OF LEOBEN, AUSTRIA

PROF. ROBERT GALLER
UNIVERSITY OF LEOBEN, AUSTRIA

PROF. RUDRAJIT MITRA
RWTH AACHEN UNIVERSITY, GERMANY

PROF. ANNA KORRE
IMPERIAL COLLEGE LONDON, U.K.

MR. RAKESH KUMAR
CMD, NLC INDIA LIMITED, INDIA

PROF. BARBARA J. ARNOLD
PENNSYLVANIA STATE UNIVERSITY, US

PROF. JIAN-LIANG GAO
HENAN POLYTECHNIC UNIVERSITY
HENAN PROVINCE, CHINA

PROF. RAKESH MISHRA
UNIVERSITY OF HUDDERSFIELD
HUDDERSFIELD, U.K.

PROF. SEKHAR BHATTACHARYYA
PENNSYLVANIA STATE UNIVERSITY, US

DR. GREG YOU
FEDERATION UNIVERSITY, AUSTRALIA

MR. G.G. MANEKAR
GENERAL MANAGER (MINE-PLANNING)
MOIL LIMITED, NAGPUR, INDIA

MR. AMITAVA DUTTA
DEPUTY GENERAL MANAGER
HEXAGON MINING, INDIA

CHIEF GUEST

PROF. SEVKET DURUCAN
IMPERIAL COLLEGE LONDON, U.K.

PATRON

PROF. V.K.TEWARI
DIRECTOR, IIT KHARAGPUR

CHAIRMAN

PROF. S.K.PAL
HOD, DEPT. OF MINING ENGG.
IIT KHARAGPUR

CONVENER

PROF. K. PATHAK
DEPT. OF MINING ENGG.
IIT KHARAGPUR

INAUGURATION FUNCTION ON 16TH DECEMBER 4 PM (IST)
WEBINAR ON 17-18 DECEMBER 2020

ORGANIZED BY
DEPARTMENT OF MINING ENGINEERING,
IIT KHARAGPUR, KHARAGPUR, WEST BENGAL, INDIA

For more information please visit : www.smart-2020.in

International Webinar on
Safe Mining and Advanced Resources Technology-2020 (SMART-2020)
December, 17-18, 2020
(https://www.smart-2020.in)

(Organized by Department of Mining Engg, IIT Kharagpur, Kharagpur, West Bengal, India)

Background

Raw materials supply for public and industrial needs and its association with the problems of climate change and economic sustainability are evergreen challenges. Coal, Petroleum and Natural gases would remain dominating in energy sector at least for coming few decades in most of the Nations. However, mining and utilization of fossil fuel as energy source, and minerals for building and industry are undergoing a paradigm shift with the advent of the fourth industrial revolution, the Industry 4.0. Natural resources including metals and aggregates are being traded globally under rapid changing dynamic market behavior that often requires new policies and legislations for governance.

Access to available resources in difficult geo-mining conditions and environment friendly sustainable mining require advanced and innovative technology. Increased production target and exodus of skilled personnel from resource engineering sector have led to increased safety and mining risks. Emerging technological solutions using artificial intelligence, data mining, machine and deep learning, mechatronics, instrumentation, automation and robotics have opened up new promises for changing the mining industry.

This webinar aims at to offer a platform for the experts of advance technologies from mining and allied sectors from across the world and to provide an opportunity to the academic, researchers, industrial experts to deliberate on the state of the art advancements and smart technologies.

Indian Institute of Technology Kharagpur

With a modest start in the Hijli Detention Camp, a symbol of the national struggle for freedom, Indian Institute of Technology Kharagpur has grown during the last 68 years to become the Institute of Eminence in teaching and research in diverse fields of engineering and technology, and has dedicated itself to fulfill the science and technology ambitions of the resurgent India. Indian Institute of Technology Kharagpur (IITKGP) is set in a sylvan surrounding about 120 km from the City of Kolkata.

The Department of Mining Engineering at IIT KGP was started in 1956. The first batch of twenty B.Tech students graduated in 1961. It is one of the most valued department imparting mining engineering education and research in India. It offers undergraduate, postgraduate and doctoral programs. The total number of undergraduate students and research scholars are around 300 and 68, respectively.

Webinar Themes

- Mining process optimization and improvement of productivity
- Data Analytics, IOT and machine learning in mining: Industry 4.0
- Safety, health and environment: Sustainable practices
- Novel mining system and disruptive technologies
- Geo-mechanics and smart devices for ground monitoring and improvement
- Resource evaluation, finance and trading
- Mining machinery and mechanization
- Mine automation and instrumentation
- Society and mining: policy, law and governance
- Mines to Mill: Technology towards zero waste generation

International Webinar on
Safe Mining and Advanced Resources Technology-2020 (SMART-2020)
December, 17-18, 2020
(https://www.smart-2020.in)

(Organized by Department of Mining Engg, IIT Kharagpur, Kharagpur, West Bengal, India)

Registration Fee (Including of GST)

	Indian/ foreign delegate
Early bird registration (up to 15 November 2020)	INR 2000/ USD 40
Registration after 15 November 2020	INR 3000/ USD 50
Regular student with valid ID card	Free

Registration form can be downloaded from the webinar website: **www.smart-2020.in**

Sponsors (Excluding of GST)

The webinar looks forward to the participation of both major and minor companies engaged in mining or providing service and goods to run the mining industry.

Category	Fee	Facility
A	INR 50,000	No. of free delegates - up to 30
B	INR 200,000	No. of free delegates - up to 60
Star	INR 500,000	Display of Advertisement and Banner

Payments

Option 1: Demand Draft: Demand Draft drawn in favour of "SMART2020", payable at any bank in Kharagpur should be sent by post to the Convenor.

Option 2: Electronic Transfer: Money should be sent in the form of electronic transfer with the following bank details.

Name of the Bank: ***Syndicate Bank, Kharagpur Branch, India***

Account No.: ***9556-220-000-2955***

Name of the Account holder: ***CEP-STC***

IFSC Code for RTGS: ***SYNB0009556***

SWIFT Code: ***SYNB-IN-BB-120***

For any further information on SMART-2020, please contact

Convener

Dr. K. Pathak
Professor,
Dept. of Mining Engg.,
IIT Kharagpur, Kharagpur, India
Tel: (M) +91-9800877877

Co-Convener

Dr. S. K. Patel
Assistant Professor,
Dept. of Mining Engg.,
IIT Kharagpur, Kharagpur, India
Tel: (M) +91-8447986033

Co-Convener

Dr. R. Kumar
Assistant Professor,
Dept. of Mining Engg.,
IIT Kharagpur, Kharagpur, India
Tel: (M) +91-95317938382

Event Manager

Dr. S. Mishra
Assistant Professor,
Dept. of Mining Engg.,
IIT Kharagpur, Kharagpur India
Tel: (M) +91-9717253877

Email: smart2020@iitkgp.ac.in
Fax: 0091 03222 282700
Website: www.smart-2020.in