



**INTERNATIONAL CONFERENCE ON
SAFE MINING AND ADVANCED RESOURCES TECHNOLOGY-2020
(SMART-2020)**

**DECEMBER 10-12, 2020
KOLKATA, WEST BENGAL, INDIA**



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





First Circular

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 conference 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.

Conference Themes

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



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 December, 10-12, 2020 at Kolkata, West Bengal, India
 (<http://www.smart-2020.in>)

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

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.



Call for Papers

Abstract Submission Guidelines

Abstract of the paper should clearly state the background and objective of the research, brief methodology, preliminary results and highlights. The abstract must be limited to 500 words.

Paper Submission Guidelines

The abstract can be submitted through online registration and uploading the files on conference website www.smart-2020.in. The submission details and guideline to the authors for abstract and full paper preparation are available on conference website. On acceptance of the abstract, the full manuscript will be submitted. The submitted papers will be reviewed by technical committee comprising of peered experts in the related field. All accepted papers will be included in the conference e- proceedings.

Important Dates & Deadlines

Dates of conference: *10– 12 December 2020*

Last date of receipt of abstract: *30 June 2020*

Decision of acceptance of abstract: *15 July 2020*

Last date of submission for full paper: *30 September 2020*

Registration Fee (Including of GST)

	Indian/ foreign delegate
Early bird registration (up to 31 October 2020)	INR 12000/ USD 500
Registration after 31 October 2020 & Spot registration	INR 15000/ USD 550
Accompanying person	INR 7000/ USD 250
Regular student with valid ID card	INR 5000/ USD 200

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

Sponsors (Excluding of GST)

Category	Fee	Facility
Platinum Sponsor	INR 12,00,000	No. of free delegates – 10 Free advertisement in Proceeding – One full page Display of banner at conference venue 15 minutes presentation of company profile
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Dinner Sponsor	INR 5,00,000	No. of free delegates – 5 Free advertisement in Proceeding – Half page Display of banner at Dinner venue

Exhibitions

During the Conference SMART-2020, an industrial exhibition will be concurrently organized near the conference hall. The dignitaries and delegates will get sufficient time and scope to visit the exhibition venue during of the Conference. Exhibitors will also get ample opportunities to network with global participants, industry leaders and policy makers.

General Information

◆ Accommodation

Various categories of rooms are available across a range of hotels in Kolkata. Details of hotels will be made available soon on www.smart-2020.in

◆ 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.: **95562200002955**

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

IFSC Code for RTGS: **SYNB0009556**

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

◆ Places to visit in Kolkata

Conference organizer will assist for the following visit with subscription (in addition to registration fee) from interested delegates.



Victoria Memorial



Indian Museum



Mother House



Seven Wonders at Eco park

◆ Sundarbans visit

The Sundarbans a UNESCO World Heritage Site is located at the South eastern tip of the 24 Paraganas district about 110 km from Kolkata. It got its name from one of the mangrove plants known as Sundari (*Heritiera Minor*). Sundarbans are a part of the world's largest delta, formed by the mighty rivers Ganga, Brahmaputra and Meghna. Situated on the lower end of Gangetic West Bengal, the Sundarbans is criss-crossed by hundreds of creeks and tributaries. It is one of the most attractive and alluring places remaining on earth, a truly undiscovered paradise. The Sundarbans is the largest single block of tidal, halophytic mangrove forests in the world. The name can be literally translated as beautiful jungle. The name may have been derived from the Sundari trees that are found in the Sundarbans. . It spans a vast area covering 4264 sq. km in India alone. It is the largest Tiger Reserve and National Park.





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For any further information on SMART-2020, please contact

Convener

Dr. K. Pathak
Professor,
Dept. of Mining Engg.,
IIT, Kharagpur, India
Tel: (M) +91-9800877877
Fax: 0091 03222 282700
Email: khanindra@mining.iitkgp.ac.in

Co-Convener

Dr. R. Kumar
Assistant Professor,
Dept. of Mining Engg.,
IIT, Kharagpur, India
Tel: (M) +91-95317938382
Fax: 0091 03222 282700
Email: rkumar@mining.iitkgp.ac.in

Co-Convener

Dr. S. K. Patel
Assistant Professor,
Dept. of Mining Engg.,
IIT, Kharagpur, India
Tel: (M) +91-8447986033
Fax: 0091 03222 282700
Email: shantanu.patel@mining.iitkgp.ac.in

