



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

**DECEMBER 16-18, 2020
IIT KHARAGPUR RESEARCH PARK, NEWTOWN, KOLKATA**



**ORGANIZED BY
DEPARTMENT OF MINING ENGINEERING,
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 fuels as energy source, and minerals for societal development 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 conditions require advanced and innovative technology. Increased production target and exodus of skilled personnel from resource engineering sector have led to increased investment of operational risks. Emerging technological solutions using artificial intelligence, data mining, machine and deep learning, mechatronics, instrumentation, automation and robotics have opened up new promises to meet the changing need of the mining industry.

This conference aims to provide 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

- ❖ Optimization of mining operations and productivity improvement.
- ❖ 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



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 fulfil the science and technology ambitions of the resurgent India. Indian Institute of Technology Kharagpur (IIT KGP) 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.



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.

Important Dates & Deadlines

Dates of conference: 16-18 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

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 guidelines 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.

Registration Fee (Including of GST)

	<i>Indian/ foreign delegate</i>
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

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Exhibitions

During the Conference SMART-2020, an industrial exhibition will be concurrently organized near the conference hall. Exhibitors will also get ample opportunities to network with global participants, industry leaders and policy makers. Details will be made available soon on www.smart-2020.in

Accommodation: Kolkata, Details will be made available soon on www.smart-2020.in

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