



A Virtual Event

Mining Technology APAC

Emerging Requirements,
New Technologies and Opportunities

December 9-10, 2021 | 11:00 am - 04:00 pm SGT

Hosted by:

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MISSION

- The Asia-Pacific region is one of the key markets for mining technology. It has abundant mineral deposits & growing mineral demand. The mining industry is witnessing technological disruptions, with the adoption of new-age technologies for sustainable and environmentally friendly mining and improvement in operational efficiencies.
- Asia-Pacific is the largest coal mining market with an almost 75 per cent share in the global market. China, Australia, India and Indonesia, the global leaders in coal production, are increasingly adopting sophisticated mining technologies and digital solutions to enhance output, undertake energy efficient mining, and improve mine design and survey. In the iron ore space, China and India are investing in the latest technology solutions and state-of-the-art machineries to meet the growing iron ore demand.
- Apart from this, countries including the Philippines, Thailand, Myanmar and Vietnam with a storehouse of untapped mineral resources including nickel, copper, zinc and bauxite are promoting environmentally and socially sustainable mining practices.
- On the technology front, the mining companies are increasingly leveraging autonomous and IoT-based solutions to improve mining operations. Digitalised drill and blast operations are being carried out to improve productivity and increase profit margins while enhancing worker safety. The shift towards energy efficient mining operations is another prevalent trend in the mining operations. Mining companies are adopting smart blasting, which uses geo-metallurgical data to target relatively high ore concentration sections.
- New-age technologies such as artificial intelligence (AI) and machine learning are gaining traction. AI-powered robotic devices are being used to perform core activities such as drilling, blasting, loading and hauling. Countries such as Australia and China have major shares in the global robotics market in the mining industry given the growing emphasis on automation of operations. The geographic information system (GIS) is being widely deployed for exploration, and reporting purposes. Telematic mining fleet management using IoT sensors has helped in lowering fleet downtime due to malfunctions and planning maintenance activities.
- Apart from this, drones are extensively being used for exploration and surveillance purposes. The LiDAR services and smart UAV solutions are being deployed in mines across India, Australia and Indonesia. Notably, Australia is the leader in cutting-edge mining technologies and has been at the forefront of technology deployment and export of IoT solutions and digital technologies in the mining sector.
- Overall, the ongoing digital mine innovation is expected to transform the key aspects of mining industry going forward, making operation safer and more efficient. That said, the uptake of new and advanced technologies in the mining segment is hampered by a number of issues and challenges, including high upfront costs, lack of skilled manpower, and the small scale of mining operations. Industry-specific issues related to regulation, geopolitical risks, legal limits on natural resource use, shareholder activism and public scrutiny add to the challenges. Besides this, with the growing interconnectedness of various mining equipment and processes, there is a need for data privacy and stringent cybersecurity measures.
- The mission of the two-day conference is to discuss the new and emerging mining technologies in the APAC region, identify the new requirements, and highlight the key challenges and potential solutions. The conference will also showcase the best practices and noteworthy projects and technologies.

TENTATIVE CONFERENCE PROGRAM

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KEY TRENDS AND OUTLOOK

- ❖ What is the current state of the mining sector in the APAC region?
- ❖ What are the recent trends and developments with regard to technology deployment?
- ❖ What are the new and emerging opportunities? What is the outlook?

INDUSTRY SHOWCASE AND BEST PRACTICES

(This session will feature presentations from leading mining players on their technologies and projects)

- ❖ What are the new and emerging technologies being deployed?
- ❖ What are the key benefits derived? What are the best practices?
- ❖ What are the issues and challenges? What is the outlook?

The minerals covered will include:

- Coal
- Iron Ore
- Bauxite
- Zinc
- Copper
- Others

DIGITAL TECHNOLOGIES FOR MINING

- ❖ What are the key applications/use cases of digital technologies in the mining industry?
- ❖ What has been the industry experience in the automation and digitalisation of mining operations and planning?
- ❖ What is the future outlook? What are the key issues and challenges?

The technologies covered will include:

- IoT-based Solutions
- Remote Sensing and GIS
- Drones and Unmanned Vehicles
- AI, ML and Robotics
- Blockchain
- Virtual Reality

FOCUS ON AUTOMATION AND REMOTE OPERATIONS

- ❖ What are the kinds of automation and remote operation solutions being deployed by mining companies?
- ❖ What are some of the use cases of a digital twin in the mining segment?
- ❖ What are the issues and challenges? What are the emerging needs and requirements?

DRILLING, BLASTING AND CRUSHING

- ❖ What has been the experience so far in drilling, blasting and crushing operations?
- ❖ What are the new and emerging technologies?
- ❖ What are the key issues and challenges? What are the emerging needs and requirements?

MINE DESIGN, SURVEY AND EXPLORATION

- ❖ What are the key considerations in mine designing and planning?
- ❖ What are the new and emerging technologies for mine survey and explorations?
- ❖ What are the key issues and challenges? What is the future outlook?

ENERGY EFFICIENT MINING

- ❖ What are some of the notable energy-efficient mining practices?
- ❖ What are the energy-efficient solutions for ancillary equipment (motors, pumps and fans)?
- ❖ What are the issues and challenges? What is the future outlook?

FOCUS ON GREEN/SUSTAINABLE MINING

- ❖ What are the currently deployed green/sustainable mining practices?
- ❖ What are the key issues and challenges?
- ❖ What is the future outlook? What are the upcoming opportunities?

CONVEYOR SYSTEMS FOR MINING

- ❖ What are the key requirements of the mining sector for conveyor systems?
- ❖ What has been the industry experience with regard to in-pit crushing and conveyor systems?
- ❖ What are new and emerging conveyor technologies for surface and underground mining?
- ❖ What is the future outlook? What are the key challenges?

SPOTLIGHT ON TELEMATICS

- ❖ What has been the industry experience in mine fleet telematics?
- ❖ What is the future outlook? What are the upcoming opportunities?
- ❖ What are the key issues and challenges?

TARGET AUDIENCE

The conference will draw participation from:

- ❖ Mine developers and operators
- ❖ Coal producing/mining companies
- ❖ Iron-ore producing/mining companies
- ❖ Other non-metallic ore producers
- ❖ Mineral development corporations
- ❖ Equipment manufacturers (drilling and blast; excavation and loading; crushing and grinding)
- ❖ Fleet management companies
- ❖ Geospatial survey technology providers
- ❖ Equipment leasing and finance companies
- ❖ Geological survey companies
- ❖ Design and engineering consultancies
- ❖ Mine safety solution providers
- ❖ Conveying systems
- ❖ Inspection agencies
- ❖ Other technology providers
- ❖ Other equipment manufacturers (motors, pumps, gensets, trucks, etc).

PREVIOUS PARTICIPANTS

The organisations that have participated in our previous conferences on "Mining Technology in India", Digital Technologies in Mining" and "Conveying Systems" have included AAC Mining, ABB, Adani Mining, AECOM, Aggreko, Altair, Andritz, Ashok Leyland, Atlas Copco, Australian Trade Commission, BASF, BEML, Bentley Systems, Bharat Forge, Bray Controls India, Brunel India, CAEZEN Technologies, Capstone Geoconsultants, Castrol, Caterpillar, Central Institute of Mining & Fuel Research, Central Mine Planning & Design Institute, CLP Power, Coal India, Cummins, Deloitte, Dextra, DSP Merrill Lynch, DuPont, Eastern CoalFields, EDF, EDS Technologies, EICL, EimcoElecon, Elecon EPC, Elliot Geophysics, Engineers India Limited, Epiroc Mining, ERM Consultants, Ernst & Young, Essel Mining, Exxon Mobil Lubricants, FL Smidth, Fugro Geotech, Gates India, GE Transportation, Geo Constech, Gmmco, Geomine Envirotech Consultancy, Government of Western Australia Trade and Investment Office, GSECL, Hazemag, High Commission of Canada, Hindalco Industries, Hindustan Copper, Hitachi, Hyundai Construction Equipment India, ICRA, IMFA, Indian Rare Earths, Inspectorate Griffith, JCB, Jenissi Management Consultants, Jindal Steel & Power, Keltech Energies, Kirloskar Brothers, KSK Minerals, Larsen & Toubro, Maccaferri, Maco Corporation, Magnum Minerals, MAN Trucks, Marsh India, Metso Minerals, Megaplast, Ministry of Coal, Ministry of Mines, Geological Survey of India, Modular Mining System, Monnet Ispat & Energy, Nalco, NLC, Nina Concrete, NMDC, Normet Underground Solutions, Northern Coalfields, NTPC, Oriental Rubber, Polycab Wires, PRD Rigs, PricewaterhouseCoopers, PTC, Putzmeister Solid Pumps GmbH, PWC, Queensland Government Australia, Rashtriya Ispat, Rio Tinto, Ringspann, Roto Pumps, Safire Capital Advisors, Sagta, Sandvik, Shree Cement, Siemens, Singareni Collieries, South Eastern Coalfields, Strategic Decisions Group, TAM Construction Chemicals, Tata Steel, Tata Hitachi Construction Machinery, Technip, Tenova Delkor, THDC, Thiess India, Thriveni Earthmovers, ThyssenKrupp Industries, TIL, TIQ, Trade & Investment, TMEIC, Tractors India, Trafalgar EPC, Utkal Alumina International, VE Commercial Vehicles, Vedanta, Vermeer Equipment, Virginia Mining Resources, Volvo, Weir Minerals, Western Coalfields, Wipro, Xylem Water Solutions, etc.



WHY SPONSOR?

- ❖ Connect with customers and potential project partners
- ❖ Showcase your products & solutions to industry leaders serious about business
- ❖ Benefit from significant brand exposure and industry-wide visibility through integrated marketing campaign - event website, email campaigns, newsletters, social media, etc.
- ❖ Opportunity to give a presentation, case study, or host a panel discussion to an audience of airport industry professionals from around the region
- ❖ Lead generation: Receive quality data of all attendees and those that express a high level of interest and intent
- ❖ Wide range of branding opportunities to put your organization at the heart of the show
- ❖ Maximise leads and build your sales pipeline

DELEGATE BENEFITS

- ❖ Direct interaction with senior speakers (Q&A facility)
- ❖ Easy connectivity to geographically dispersed delegates (click of a mouse)
- ❖ Cost effective (lower ticket price as compared to a physical conference)
- ❖ Offers flexibility and convenience
- ❖ Access to conference recording
- ❖ Recap of conference sessions
- ❖ Contributes to sustainability and lower carbon footprint

BENEFITS OF SPONSORSHIP

- ❖ E-Meet influencers and decision-makers
- ❖ Reach out to and engage with new or active prospects
- ❖ Generate high quality sales leads
- ❖ Increase brand recognition
- ❖ Target a captive and engaged audience
- ❖ Drive website traffic through social media promotions
- ❖ Position your company as the thought-leader in your industry

DELEGATE FEE

Logins	USD
1 Login	250
2-3 Logins	400
4-5 Logins	550
6-9 Logins	700
10-20 Logins	850

DISCOUNTED FEE

20 per cent discount ends on November 9, 2021

Logins	USD
1 Login	200
2-3 Logins	320
4-5 Logins	440
6-9 Logins	560
10-20 Logins	680

TERMS AND CONDITIONS

Payment Policy

Full payment must be received prior to the conference. For discounted rates, the payment must be received on or before the discount expires.

Disclaimer

- ❖ Indian Infrastructure shall assume no liability whatsoever in case the event is postponed or cancelled due to a fortuitous event or unforeseen occurrence that renders the performance of this conference impracticable, illegal or impossible. For purpose of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.
- ❖ Please note that it may become necessary for reasons beyond the control of the organisers to make alterations to the content and timing of the programme or speakers.

GET IN TOUCH

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ABOUT THE ORGANISERS

The conference is being organized by **India Infrastructure Publishing**, a leading provider of information on the infrastructure sectors through conferences, magazines, reports, and directories. The company publishes **Indian Infrastructure** (a magazine devoted to infrastructure policy and finance) and a series of research reports on the mining sector including **Mining in India** and **Mining Equipment Market Protections, Coal Based Power Generation, Logistics in India**.

India Infrastructure has successfully organized and delivered 10 editions of the "Mining Technology in India" conference. The conferences elicited participation from all key stakeholders. The company also organizes annual events on **Coal in India** and **Conveying Systems**.

SouthEast Asia Infrastructure magazine (www.southeastasiainfra.com) is a leading source of information on infrastructure development in Southeast Asia. It tracks key developments, analyses emerging trends, features industry players, perspectives highlights key initiatives, and profiles exemplary projects.