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## **PRESS-RELEASE**

### **DIGMIN 2025 Concludes with Valedictory Session, Charting Roadmap for Mining 5.0 and Sustainable Technologies**

The curtains came down on the two-day International Conference on Digital Intelligence for Green Mining and Industrial Networks (DIGMIN 2025) at IIT (ISM) Dhanbad with the valedictory session held today at the Golden Jubilee Lecture Theatre. The conference, hailed as India's first premier forum dedicated to the transformative vision of Mining 5.0, brought together global thought leaders, researchers, and industry professionals to deliberate upon critical issues shaping the mining sector of the future.

The valedictory function was graced by Prof. A.K. Mishra, Director, Central Institute of Mining and Fuel Research (CIMFR), who attended as Chief Guest. Also present were Prof. Dheeraj Kumar, Deputy Director, IIT (ISM) Dhanbad; Shri J.P. Goenka, Distinguished Alumnus (1961 Mining) of IIT (ISM) and representative of the Alumni Association (Kolkata Chapter); Prof. R.M. Bhattacharjee, Senior Professor and former Dean (International Relations and Alumni Affairs); Prof. B.S. Choudhary, Head of the Department of Mining Engineering; Prof. Anindya Sinha, Convener of DIGMIN 2025; Prof. Siddharth Agarwal, Co-Convener; and Prof. Ajit Yadav, Treasurer of the conference.

Over the two days, DIGMIN 2025 witnessed intense deliberations through keynote addresses, technical sessions, and panel discussions. The conference explored a wide spectrum of themes including Innovation in Mining from Earth to Space, Digital Pathways for Smart Mining, AI-driven mineral intelligence, Robotics and Automation in Harsh Environments, Edge AI and Real-Time Analytics, Energy Efficiency and Process Optimization, and Applications of Geostatistics and Machine Learning in Mineral Resource Modelling. More than 150 technical papers were presented, showcasing cutting-edge research and innovation from India and abroad.

Addressing the gathering, Prof. A.K. Mishra emphasized that the future of mining lies in harmonizing technology with sustainability. He noted that the deliberations of DIGMIN 2025 have underscored the urgent need to adopt artificial intelligence, robotics, IoT, and green technologies in mining operations to ensure safety, efficiency, and environmental responsibility. "Mining 5.0 is not merely a vision but a necessity, and conferences like DIGMIN play a pivotal role in shaping the roadmap for this transformation," he said.

Prof. Dheeraj Kumar, Deputy Director, IIT (ISM), underlined that the institute, standing at the centenary milestone, has once again reaffirmed its global leadership in mining education and research. "This conference has showcased how India is not only embracing digital transformation but also pioneering new practices that will make mining safer, smarter, and greener," he remarked.

Prof. B.S. Choudhary, HoD Mining Engineering and Chairman of the Organizing Committee, said DIGMIN 2025 has fulfilled its objective of creating a collaborative platform for academia, industry, policymakers, and technologists. "By focusing on digital intelligence, green mining, and industrial networks, this conference has set the tone for the future of resource management in India and beyond," he added.

The valedictory session also included reflections from Shri J.P. Goenka, who praised the institute for continuing its tradition of academic excellence, and from senior professors and conveners who acknowledged the contributions of participants, sponsors, and collaborators in making DIGMIN 2025 a resounding success.

As DIGMIN 2025 concluded, it left behind a legacy of ideas, innovations, and collaborations that will continue to guide the mining sector in its journey toward sustainability and technological integration. Organized as part of the centenary celebrations of IIT (ISM) Dhanbad, the conference stood as a fitting tribute to the institute's hundred-year legacy of pioneering mining education and research, while charting bold new directions for the century ahead.

Rajni Singh

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