

NATIONAL SEMINAR ON "AUGMENTATION IN METAL PRODUCTION: JOURNEY TOWARDS GREEN" (AMPG -2024)



Saturday, 21st September 2024

Venue :

Williamson Magor Hall

1st level, Bengal Chamber of Commerce
& Industry, Royal Exchange Building
6 N S Road, Kolkata.



Organised by

**The Mining, Geological &
Metallurgical Institute of India**

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PREAMBLE

The Mining, Geological, and Metallurgical Institute of India (MGMI) holds the esteemed distinction of being the oldest professional society of its kind in Asia. Established on 16th January 1906, the primary objective of this Institute is to foster the comprehensive study of mineral occurrences in India, promote the cause of the mineral industry, and effectively disseminate information to drive economic development in the mineral industries across the country. With over 2100 members, MGMI represents individuals from diverse fields within the mineral-based industries, including technocrat planners and policymakers in both public and private sectors operating at state and central levels. The Institute's headquarters and one of its branches are in Kolkata, with an additional 18 branches spanning the entire country. MGMI organizes international and national seminars, along with the biennial Asian Mining Congress and Exhibitions, providing a pivotal platform for esteemed executives, accomplished technocrats, visionary planners, and influential policymakers. These individuals collectively contribute significantly to the advancement and development of the industry.

SEMINAR BACKGROUND

Metals play an important role in our daily lives, serving a variety of functions across a wide range of applications.

Among the various metals and alloys, steel is the most important material on a global scale. Currently, India's per capita steel usage stands at around 87 kilograms per year, which is below the global average of 225 kilograms per year. By 2047, the centenary year of India's independence, the vision is to achieve a per capita steel consumption of 400 kilograms per year. To support this vision, India is targeting an annual steel production capacity of 300 million tonnes by 2030 and aims to further increase this capacity to 500 million tonnes by 2047.

In India, copper is a vital material for development and is extensively used in Electrical components such as electrical wiring, plumbing, and telecommunications due to its good conducting properties, durability, corrosion resistance, and aesthetic appeal, making it a critical material in urbanization and modernization efforts. As India continues to develop, the demand for copper is



expected to rise significantly. The construction of smart cities, the expansion of renewable energy projects, and the modernization of the power grid will further drive copper consumption.

Aluminium, known for its lightweight and strength, has become a common material in aircraft manufacturing, shipbuilding, and the train and automobile industries. Given these wide-ranging applications, there is an urgent need to increase metal production to support civilization's growth.

Lithium, the lightest metal, has presently gained immense importance for its use in rechargeable batteries for laptops mobile phones and electric vehicles.

Another very important metal is Manganese. Source of Manganese is Pyrolusite. Main uses of Manganese and Fe-Mn is in iron and steel industry as de-oxidiser and de-sulphuriser. It also reduces hot shortness of steel and improves workability. Manganese is also used in construction and electronics industry.

However, the process of metal production, which includes mining, refining, and manufacturing, has serious environmental consequences, including the emission of greenhouse gases like carbon dioxide and methane, which contribute to global warming. To address these issues, metals and alloys must be produced in a manner that reduces pollution. Embracing "green technology" is vital for revolutionizing metal and alloy production, driving sustainable development, and ensuring the future of modern civilization.

To achieve these objectives on a long-term basis, innovative manufacturing of metals technologies and practices must be implemented. This includes increasing energy efficiency, recycling more materials, minimizing emissions, and adopting cleaner methods of production. By focusing on these areas, this seminar can contribute to the metal industry and thus boost economic growth while reducing its environmental impact.

NATIONAL SEMINAR

"Augmentation in Metal Production : Journey Towards Green" - (AMPG -2024)



PARTICIPATION

The seminar seeks active participation from professional managers, planners, policymakers, equipment manufacturers, scientists, entrepreneurs, and academicians to engage in insightful discussions surrounding the subjects. Esteemed experts from prominent mineral-producing, and steel sectors in India are invited to deliver presentations and share their valuable insights during the national seminar. This collaborative platform aims to foster knowledge exchange, facilitate meaningful interactions, and drive forward the discourse on these critical topics.

Broad Programme for the Seminar

Day & Date : Saturday, 21st September 2024

09.00 hrs.	Registration
09.30 -10.30 hrs	Inaugural Session
10.30 -11.00 hrs	Snacks and Tea/Coffee Break
11.00 -14.00 hrs	Technical Session
14:00 – 15:30 hrs	Lunch

Post Lunch Programme :

AGM 2024

Venue

Williamson Magor Hall, 3rd Level, Bengal Chamber of Commerce & Industry, Royal Exchange Building,
6, Netaji Subhash Road, Kolkata 700001.

Registration & Delegation Fees

Indian Delegate	Rs. 3,000/-
Faculty from Academic/Research Institutions	Rs. 1,500/-
Research Scholars and Students	Rs. 700/-

Sponsorship & Promotional Opportunities :

Category	Sponsorship Fee	Free Delegates
Principal Sponsor	Rs. 3,00,000/-	20
Platinum Sponsor	Rs. 2,00,000/-	15
Gold Sponsor	Rs. 1,00,000/-	7
Lunch Host	Rs. 2,00,000/-	15

A standard 18% Goods and Services Tax (GST) will be applicable, as per the Government of India rules, to all sponsorship and delegate fees.

Sponsors will receive proper acknowledgment during the seminar and on backdrop & standees and will have the opportunity to distribute their promotional materials. The program will be conducted on a non-residential basis.

PAYMENT

All payments are to be made through Demand Drafts drawn in favour of "THE MINING, GEOLOGICAL & METALLURGICAL INSTITUTE OF INDIA" payable at Kolkata.

BANK DETAILS :

Name of the Bank: State Bank of India Account No: 10224931340

Name of Branch: SLEC, Kolkata-700 091 SWIFT No: SBININBB138

MICR Code: 700002193

IFSC/RTGS Code: SBIN0009985

PAN No: AAATT7390J

GSTIN No: 19AAATT7390J1ZV

THE VENUE

A reminder of the glory days of flourishing Calcutta (now known as Kolkata) businesses, Williamson Magor Hall in the iconic Royal Exchange Building in Grecian Architecture, housing the Bengal Chamber of Commerce and Industry is a heritage 1940s Seminar Hall being regularly used for symposiums and other. The marvellous white building with the majestic Corinthian columns at the corner of India Exchange Place and Netaji Subhas Road is a landmark in the old Central Business District of or B B D Bag.



PRINCIPAL COORDINATORS :

President, MGMI — Dr B Veera Reddy, Director (Technical), Coal India Limited
Honorary Secretary, MGMI — Shri Ranajit Talapatra, Former GM, Coal India Limited

Convenor: Dr. Rajib Dey, Professor, Metallurgical & Material Engg. Deptt., Jadavpur University

Co-Convenor: Dr. Arghya Majumder, Director, School of Mining & Metallurgy, Kazi Nazrul University

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