

5TH SCHOOL ON MANGANESE FERROALLOY PRODUCTION

THEME: DECARBONIZATION OF THE MANGANESE FERROALLOY INDUSTRY

4 JULY 2024 - CONFERENCE

Venue: Online



The energy-intensive industry of manganese (Mn) ferroalloy production is one of the largest producers of direct carbon emissions. The demand for ferromanganese alloy, an additive of steel, follows the demand for steel and continues to increase. This means Mn ore and the production of Mn ferroalloys form an integral part in a future energy sector based on renewable energy technologies. Major structural features of wind turbines, solar panels, and energy storage devices are all made of steel components.

The current industrial practices and state-of-the-art in Mn ferroalloy production are heavily dependent on the use of fossil-based carbon. The 5th SAIMM school on Mn ferroalloy production thus aims to bring together industry and research in order to support smelters and foster collaborations between researchers towards adopting the transition of decarbonizing the ferroalloy industry.

The conversation around the topic will shed light on some of the fundamentals and industrial integration of the various decarbonization strategies.



OBJECTIVE

- To create a platform to discuss the environmental impact of carbon emissions from the production of Mn ferroalloys.
- To provide the opportunity for industrialists and researchers to exchange views on the decarbonization of the Mn ferroalloy industry.
- To further enhance collaborations between parties.



TARGET AUDIENCE

- Local and international delegates from the Mn ferroalloy industry or those who support them.
- Existing and potential future industry role players.
- Engineering companies.
- Research/academic institutions.
- Companies providing funding for new Mn projects.



TOPICS

- Commercial production processes and overview of Mn production in South Africa and Europe, including potential new projects.
- Process fundamentals on thermodynamics, slag fundamentals, and reaction kinetics based on various decarbonization strategies.
- CO₂ reduction programs in the industry, CO₂ capture and energy recovery, Bio-carbon, H₂ and, solar energy.

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