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SAIMM
THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY

4TH MANGANESE SCHOOL

THEME: ENVIRONMENT/ENERGY – CO_2 EMISSIONS

20-21 SEPTEMBER 2022, PARIS

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PREMA

Environmental issues related to industrial emissions have come to the forefront of general discourse in recent years. The Manganese ferroalloy production is energy intensive and it also contributes to the industrial CO_2 emissions. This 4th edition of Manganese school is organized around the theme of Environment/Energy – CO_2 emissions to strengthen the dialogue between the industry and researchers in the field to reduce the environmental impact of the process.

PreMa project aims at demonstrating an innovative suite of technologies, involving utilization of bio-carbons, industrial off-gases and solar thermal energy, to reduce energy consumption and CO_2 emissions from manganese production to obtain sustainable production of Mn-alloys and steel. The project is funded by the Horizon 2020 program of European Union, and European and South African industrial partners.

Some prominent industrial partners of the consortium of PreMa project are Eramet, Transalloys, Ferroglobe Mangan Norge AS, Outotec and OFZ working together with excellent research partners SINTEF, NTNU, IETU, Mintek and Stellenbosch university.

Eramet is one of the world's leading producers of Manganese ferroalloys and Manganese ores. This 4th edition of the Manganese School is hosted in Paris by Eramet in collaboration with SAIMM under the scope of PreMa project. The launch of registration will follow shortly.

OBJECTIVE

- To provide a platform to discuss the environmental issues due to the production of manganese ferroalloys and present the innovative solutions to reduce the environmental impact of the industry
- To create an opportunity for researchers and operators, to update their knowledge on the production of manganese ferroalloys
- To create a platform where researchers and operators can exchange views on the best practices to produce manganese ferroalloys
- To create a platform for the PreMa project to disseminate the results of the collaborative research and obtain inputs from parties outside of the consortium
- To further enhance collaboration between parties.

TARGET AUDIENCE

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

TOPICS

- Commercial aspects of the manganese ferroalloy production process
- Process fundamentals including fundamental thermodynamics, slag fundamentals and reaction kinetics
- CO_2 reduction programs in the industry, improving pre-reduction inside and outside, CO_2 capture and energy recovery, Bio-carbon, Use H_2 and alternative processes, solar energy
- Workshop on realizing pre-reduction in the industry.

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CPD points 0.1 per hour
CPD allocation will apply to South African participants