



Aluminium Electrolysis Short Course ICSOBA 2024

24 - 26 October 2024

Lyon, France



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INVITATION

The International Committee for Study of Bauxite, Alumina & Aluminium (ICSOBA) has the honour to announce the **Aluminium Electrolysis Short Course** to be held before the **42nd International Conference and Exhibition of ICSOBA**.

The course will be held in Lyon from **24 to 26 October 2024** at the hotel **Marriott Lyon Cite Internationale**.

The 3-day course will provide a comprehensive understanding of the electrolysis process and an overview of the state-of-the-art aluminium production.

Lectures highlight latest development in the context of decarbonisation and digitalisation challenges of our industry.

WHO ATTENDS?

Process engineers, technical and project managers, supervisors, operators of Hall-Héroult cells, developers of technology and anyone with an interest in aluminum production.

THE COURSE

The course offers a theoretical overview of the electrolysis process, the state-of-the-art technology and equipment to produce aluminium, as well as practical aspects of aluminium production.

Attendees will learn to solve technical problems at aluminum smelters, such as: diagnosis and treatment of problem pots; heat and mass balance applied to potline operations.

COURSE TOPICS

- The Aluminium Electrolysis Process
- The Electrolysis Cell
- Current Efficiency in Aluminium Electrolysis
- Anode Effects and PFC Emissions
- Heat and Mass Balance Fundamentals
- Heat and Mass Balance Group Work
- Pot Control
- Operation at High Current Density
- Potline Operations
- Anode Performance Requirements in Modern Cells
- MHD for Reduction Cells
- Reduction Cells Modern Technologies
- Pot Resistance Adjustments
- Amperage Increase Strategies
- Exhaust Gases and Ventilation
- Cathode Lining in Modern Cells
- The Decarbonisation of the Aluminium Industry
- Preheating of Cells
- Cell Start-Up and Normalisation
- Fluoride Emissions
- Operational Diagnostics of Problem Pots
- Group Work on Problem Pots
- Measurements in Cells
- Industry 4.0 and AI

PRESENTERS

Dagoberto Severo	CAETE Engenharia Ltda
Jeff Keniry	Alumination Cons. Pty. Ltd
Martin Iffert	Martin Iffert Cons. GmbH
Michel Reverdy	EGA PJSC
Pablo Navarro	EGA PJSC
Vanderlei Gusberti	CAETE Engenharia Ltda
Vinko Potocnik	Vinko Potocnik Cons. Inc.

LANGUAGE

The language of the course and notes is English.

COURSE FEE

The course fee is:

- ICSOBA corporate members
Before 30 September USD 1 500.00
After 30 September USD 1 700.00
- Non-members
Before 30 September USD 1 700.00
After 30 September USD 1 900.00

The course fee includes:

- 3-day course
- Course notes in pdf file
- Daily lunches
- Refreshment breaks
- Closing dinner

Deadline to register is **15 October 2024**.

A cancellation received before 15 October 2024 will be fully refunded minus a 50 USD processing fee. No refunds will be processed after 15 October 2024.

Register soon – there are a limited number of seats available !!!

HOW TO REGISTER

To register to attend this course please contact Dagoberto Severo at:

dagoberto.severo@icsoba.org

ACCOMODATIONS

Special rates are available to course participants who stay at the **Marriott Lyon Cite Internationale Hotel**. Please contact us to receive the instructions of how to book the room.

ABOUT THE ORGANISER



The International Committee for Study of Bauxite, Alumina and Aluminium (ICSOBA) is an independent non-profit association that unites industry individual and corporate members representing major bauxite, alumina and aluminium producing companies, technology suppliers, researchers, and consultants from around the world. The main objective of ICSOBA is to promote the exchange of ideas and results of the work from different fields of research and current practice from bauxite mine to primary aluminium.

Since 1963, now for 60 years, ICSOBA annual technology conference is organized in different parts of the world and proceedings are published as TRAVAUX volumes.

The vision of ICSOBA to become the “Technology Conference of the Aluminium Industry, for the Aluminium Industry” has received support of 45+ major companies who are participating in the yearly ICSOBA Corporate Member Council to voice their view and influence ICSOBA strategy. As a company active in the aluminium industry, you are most welcome to join the Council <https://icsoba.org/corporate/>

CONTACT US

For more information, please contact us at dagoberto.severo@icsoba.org

