

MAY 20 & 21

A CORUÑA, SPAIN

AMITech Talks

Advancing EAF Expertise,
Connecting Steelmakers

FIRST EDITION

A PREMIER EVENT DEDICATED TO OPTIMIZING THE EAF STEELMAKING PROCESS, UNITING INDUSTRY EXPERTS, INTERACTIVE WORKSHOPS, AND CUTTING-EDGE TECHNOLOGIES TO DRIVE EFFICIENCY, SUSTAINABILITY, AND INNOVATION IN STEEL PRODUCTION.

AMI Automation, now part of Resonac, is a global leader in automation and control solutions. We specialize in designing, manufacturing, and implementing innovative technologies to enhance process efficiency across industries such as steel, mining, cement, pulp & paper, and oil & gas. With over 35 years of experience, AMI integrates advanced automation, AI, and specialized engineering to address the challenges of modernizing industrial processes. From technology upgrades to process optimization, AMI delivers tailored solutions to meet the unique needs of its customers. By partnering with Resonac Graphite, we aim to become supplier of choice through a focus on safety, sustainability, digital transformation; and by providing innovative solutions to achieve exceptional steelmaking performance.



AMITech Talks – First Edition

We are excited to announce the first edition of AMITech Talks, a live event taking place in A Coruña, Spain, on May 20-21, dedicated to steelmakers. This is a valuable opportunity for attendees to enhance their understanding of the EAF (Electric Arc Furnace) process, engage in discussions with industry experts, and participate in practical training sessions that they can directly apply in their plants.

About this event

AMITech Talks brings together AMI specialists, industry partners, and customers eager to share their experiences and insights. This dynamic event will cover key topics essential to optimizing the EAF steelmaking process, including the optimization of electrical and chemical energy in the EAF, the latest applications and technology for process control, best practices for DC, AC, and special steel production, and insights on transformers and power systems.

Join us for a two-day engaging exchange of knowledge, practical solutions, and the latest advancements in EAF technology.

The event has a fee of 275 USD, which includes access to the event and trainings, accommodation, transportation, meals, dinners, and additional activities, ensuring a seamless and enriching experience.

Who should attend?

Designed for operation engineers, supervision personnel, and process engineers, this event offers a unique opportunity to exchange knowledge, enhance skills, and learn from both AMI specialists and fellow industry professionals.



Session Summary

Electrode Regulation. Operating principles, key performance indicators for control evaluation, best practices for electrode regulation, recommended operating points, and principles for maintaining arc stability.

EAF Process. A review of operational best practices from scrap charging, burner operation, lancing, slag foaming, sampling. Typical issues, their source and possible solutions.

AI Applications for EAF Process Control. AI tools for improving EAF operation efficiency, cost reduction and minimized environmental impact. Real-time data analysis for complex decision making of process control.

Advanced Compensation Equipment. Role of SVC's as compensation equipment to improve power factor, and mitigate the disturbances caused by EAF operations.

Furnace Grounding. Grounding purposes, considerations for AC and DC systems, relevant measurements, common issues, and corrective actions.

Furnace Transformer. Key components. Understanding gas analyses reports and identifying potential problems.

Electrode Care. Key characteristics of graphite electrodes will be presented, with a focus on practical applications and performance improvement. Recommended best practices.

Open session. Participants will have the opportunity to exchange experiences regarding specific technical challenges. Participants' feedback will be further elaborated on by experts.

Detailed Program

Electrode Regulation

- Principles of electrode regulation systems
- Key performance indicators (KPIs) for regulation performance
- Best practices for maintaining stable arc conditions
- Optimizing operating points for energy efficiency
- Common regulation system issues and troubleshooting
- Integration of automation for improved electrode control

EAF Process

- Scrap charging techniques and material preparation
- Optimal burner operation for improved efficiency
- Lancing methods and safety considerations
- Slag foaming techniques to enhance process stability
- Sampling procedures for accurate composition control
- Identifying and correcting process deviations

AI Applications for EAF Process Control

- Optimization of Electrical and Chemical Energy use
- Data visualization tools
- Tools for complex algorithms implementation
- Integration of multiple data sources and type
- Image recognition tools

Advanced Compensation Equipment

- Introduction to Static Var Compensators (SVC)
- Role of SVCs in mitigating voltage fluctuations
- Improving power factor and reducing harmonic distortion
- Strategies for integrating SVCs with EAF systems
- Case studies demonstrating successful SVC implementation
- Maintenance and troubleshooting of compensation equipment

Furnace Grounding

- Importance of proper grounding in EAF systems
- AC vs. DC grounding considerations
- Measurement techniques for grounding effectiveness
- Common grounding issues and their impact on operations
- Corrective actions to resolve grounding faults
- Safety protocols for grounding system maintenance

Furnace Transformer

- Key transformer components and their roles
- Visual inspection techniques for early fault detection
- Understanding and interpreting gas analysis reports
- Identifying potential transformer problems before failure
- Maintenance strategies to extend transformer lifespan
- Emergency response for transformer malfunctions

Electrode Care

- Graphite electrode composition and material properties
- Electrode geometry, tolerance limits, and inspection techniques
- Factors affecting electrode performance and longevity
- Storage, handling, and installation best practices
- Identifying electrode defects and common failure modes
- Maintenance strategies to minimize breakage and improve efficiency

Schedule

Monday 19

20:00 Welcome reception at Hotel Hesperia

Tuesday 20

09:00 Pick-up from Hotel Hesperia
09:30 Introduction
10:00 Electrode Regulation by Martial Martig
11:30 Furnace Grounding by Saúl González
13:00 Lunch*
14:00 AI Applications for EAF Process Control by Saúl González
15:30 Open Forum by Emmanuel Placier
17:00 Pick-up Resonac Plant to Hotel Hesperia
18:00 Tour and Dinner at Museum Estrella Galicia

Wednesday 21

09:00 Pick-up from Hotel Hesperia
09:30 Furnace Transformer by Saúl González
10:30 Advanced Compensation Equipment by Bernardo Sainz
11:30 EAF Process by Markus Abel
13:00 Lunch*
14:00 Plant Tour Resonac Graphite Spain (Electrode Care) + ATC-E
16:00 Pick-up Resonac Plant to Hotel Hesperia
20:00 Dinner

LUNCH WILL BE SERVED AT THE PLANT CANTEEN*

Speakers



Martial Martig
With over 35 years of experience in EAF control and regulation, automation and process control for the steel industry around the world, Martial plays a key role in AMI Automation with Business Development activities for the promotion of the AMI technology in the EMEA region.



Saúl González
As an expert in the EAF steelmaking process, he is currently serving as the Global Director of Operations at AMI Automation. With over 15 years of experience, he has held various roles in operations, commissioning, and automation of AMI systems worldwide. His expertise encompasses process optimization, automation solutions, and the integration of advanced technologies in steelmaking operations. He is now leading the largest EAF optimization specialist group in the market.



Markus Abel
Managing Director of tripleS GmbH & Co. KG. With extensive experience in process technology, metallurgy, and technical sales in the steel industry, he has held key roles at Fuchs Systemtechnik, Siemens VAI, among others. With specialization in EAF, LF, VD/VOD, and RH processes, has led to over 40 start-ups and studies. Since 2015 he has been a partner of AMI, promoting its technology in the EMEA region.



Bernardo Sainz
Bernardo Sainz, is the CEO of AMI Automation, with a background in Electrical Engineering. With 31 years at AMI Automation, he is also in charge of the Industrial Solutions Business Unit. His fields of expertise include automation systems, high-power electronics, and operation efficiency in a wide variety of industries, including steelmaking.



Emmanuel Placier (Open Forum Moderator)
With several years of experience in the global steel industry, specializing in Electrode Regulation and EAF Optimization systems, Emmanuel has a background in electrical and automation engineering. He is currently part of the AMI Automation team based in Europe, contributing to business development and sales and supporting technical services for EAF Optimization. Since 2014 he is based in the Czech Republic with the responsibility to promote the AMI technology to customers in the EMEA and Asia regions.



Location

Resonac Graphite Spain S.A.U., Zona Industrial de la Grela Ctra., Baños de Arteixo No. 34, 15008, A Coruña, Spain.

The event will take place at the Resonac Graphite Spain facilities, transportation will be provided.

A Coruña

A Coruña is a vibrant coastal city in the northwest of Spain, known for its rich maritime history, dynamic economy, and cultural heritage. With a population of approximately 245,000, it serves as a major commercial and industrial hub in the region. The city is home to key industries, including technology, textiles, and energy, and is recognized for hosting international corporations.

Founded by the Romans, A Coruña boasts a deep historical legacy, with landmarks such as the Tower of Hercules, the world's oldest functioning lighthouse and a UNESCO World Heritage Site. Visitors can explore the picturesque Maria Pita Square, the scenic Riazor Beach, and the lively Old Town, which offers a mix of traditional Galician cuisine and modern cuisine.

A Coruña's strategic coastal location makes it an important port city, playing a crucial role in Spain's trade and commerce. The city also provides a high quality of life, with excellent infrastructure, a mild oceanic climate, and a thriving cultural scene that includes museums, theaters, and festivals.

IF YOU WOULD LIKE TO LEARN MORE ABOUT A CORUÑA AND ITS TOURIST ATTRACTIONS, I INVITE YOU TO VISIT THE OFFICIAL TOURISM WEBSITE:
[HTTPS://WWW.CORUNA.GAL/TOURISM/EN?ARGIDIOMA=EN](https://www.coruna.gal/tourism/en?argidioma=en)

Accommodation

Reservation will be included upon registration. The accommodation will be at Hesperia Coruña Centro, Calle Juan Flórez, 16, 15004 La Coruña, Spain.

Once you complete the registration, you will receive a confirmation email with your reservation details.

How to get there?

A Coruña is easily accessible via A Coruña Airport (LCG), located just 8 km (5 miles) from the city center. The airport offers direct connections to major Spanish cities such as Madrid, Barcelona, and Bilbao, as well as select international destinations.

For attendees traveling from outside Spain, connecting flights are available through major hubs like Madrid-Barajas (MAD) and Barcelona-El Prat (BCN).

Once you arrive in A Coruña, no need to worry about transportation—AMI has it covered. You can find the transportation details in the next page.

Transportation

During the event, all transportation between the hotel, Resonac’s plant, and scheduled activities will be fully arranged, ensuring a seamless experience for you. No need to worry about getting to and from the venue—we’ve got it covered.

Additionally, a dedicated shuttle service will be available for airport transfers, providing convenient transportation from the airport to the hotel and from the hotel or plant back to the airport. Shuttle schedules are detailed below.

IF YOU EXPERIENCE ANY ISSUES OR DELAYS, PLEASE DON’T HESITATE TO CONTACT US. YOU CAN GIVE US A CALL OR SEND A MESSAGE VIA WHATSAPP AT +34 626 475 183 FOR ASSISTANCE.

Shuttles Schedule

Monday 19

- 08:40 Airport to Hotel Hesperia
- 14:55 Airport to Hotel Hesperia
- 16:20 Airport to Hotel Hesperia
- 17:05 Airport to Hotel Hesperia
- 21:00 Airport to Hotel Hesperia

Tuesday 20

- 08:30 Airport to Resonac Plant
- 09:00 Hotel Hesperia to Resonac Plant
- 17:00 Resonac Plant to Hotel Hesperia
- 18:00 Hotel Hesperia to Museum Estrella Galicia
- 22:00 Museum Estrella Galicia to Hotel Hesperia

Wednesday 21

- 09:00 Hotel Hesperia to Resonac Plant
- 15:30 Resonac Plant to Airport
- 16:30 Resonac Plant to Hotel Hesperia

SHUTTLE SCHEDULES MAY CHANGE CLOSER TO THE EVENT*



ATC-E Tour: Experience Cutting-Edge EAF Optimization

As part of the event, you will have the exclusive opportunity to visit the AMITech Center – Europe (ATC-E) located in Resonac Graphite Spain. This state-of-the-art facility is dedicated to optimizing Electric Arc Furnace (EAF) operations, providing expert support to meltshops across the EMEA region.

During the tour, you'll gain firsthand insights into how ATC-E's team of EAF automation and process specialists leverage remote monitoring, diagnostics, and advanced SmartFurnace® optimization technologies to drive continuous performance improvement. Learn how AMI's presence in Europe enables faster response times, seamless customer communication, and enhanced service reliability.

Join us for an immersive experience in EAF innovation and discover how ATC-E helps steelmakers boost productivity, reduce energy consumption, and maximize efficiency.

Meet our Team



Martial Martig
EAF Regulation & Process Specialist



Emmanuel Placier
EMEA Business Development Director



Thierry Koeger
EAF Regulation & Process Specialist



Antonio Elizondo
Regulation & ATC-E Manager



Karen Serrano
Tech Room Coordinator



Marcos Parada
Regulation / Support Engineer



Angela Garcia
Regulation / Support Engineer



Rodrigo Elizondo
Sr. Support Engineer



MEGA Experience & Dinner

Immerse yourself in the world of beer at MEGA – the Estrella Galicia Museum, where you'll uncover the rich history, brewing techniques, and unique secrets behind one of Spain's most iconic beers. This exclusive experience will culminate in a special dinner, offering the perfect blend of gastronomy and tradition.

Location: MEGA, Estrella Galicia Museum, Rúa José María Rivera Corral, 6, 15008 A Coruña, Spain

Departure: The bus will leave from Hesperia Coruña Centro Hotel at 18:00.

Return: The return trip is scheduled to arrive back at the hotel at approximately 22:00.

Registration

The event has a fee of **275 USD**, which includes access to the event and training, accommodation, transportation, meals, dinners, and additional activities, ensuring a seamless and enriching experience.

For any questions, feel free to contact us at **AMITechTalks@amiautomation.com**

Via WhatsApp at +34 659 954 397

SEE YOU THERE!

Register now

Register through our website
www.amiautomation.com/AMITechTalks



AMITech Talks