



**TRAINING
PROGRAM
23-24**

ATLANTIC COPPER CHAIR

Course aimed at students in their second year and above (including Master's degree), from the Higher Technical School of Mines and Energy Engineering (ETSIME), and other schools of the UPM (Industrial and Materials), whose students are interested in expanding their training and knowledge in metallurgy, and also professionals interested in the extraction and processing of metallic mineral raw materials, and students of the SUMA MASTER PROGRAMME IMAGINE III.

It will last from October 2023 to March 2024, on Thursdays from 6:30 pm to 8:30 pm, in Atlantic Copper Classroom ("Casa del Alumno").

*The classes will be face-to-face for UPM students, taught simultaneously in streaming for all students within the "SUMA MASTER IMAGINE III" programme.

Training programme

- **“Introduction: “Current trends in Metallic Mining industry and the Non ferrous Metallurgy”**
 - Mr. Marc Seefeldt. KU Leuven. Faculty of Engineering, member of the Materials Science Division, programme director Nano- and microstructure design of materials/
Mr. José Luis Tejera. PhD in Mining Engineering by the Higher Technical School of Mines and Energy Engineering , UPM.

Planned date: 19th October, 2023
- **“Sustainable mineral raw materials industry”**
 - Mr. Vicente Gutiérrez Peinador. President of CONFEDEM (National Confederation of Mining and Metallurgy Businesses)

Planned date: 26th October, 2023
- **“Innovation management in the metallurgical industry”**
 - Mr. Guillermo Ríos, PhD. Technology and Innovation Director, ATLANTIC COPPER.

Planned date: 2nd November, 2023
- **“Circular economy. ATLANTIC COPPER recycling project”**
 - Mr. José Miguel Quintana. Mining Engineering. Planning and Control Director, ATLANTIC COPPER.

Planned date: 16th November, 2023
- **“Copper market and Metal stock exchanges”**
 - Prof. Javier Targhetta. Higher Technical School of Mines and Energy Engineering of Madrid. President, ATLANTIC COPPER & SVP, Marketing & Sales, Freeport-McMoRan.

Planned date: 30th November, 2023
- **“The copper obtention. Decisions chain”**
 - Mr. Carlos Ortiz. SVP Metallurgy. ATLANTIC COPPER.

Planned date: 14th December, 2023
- **“Talent recruitment and retention”**
 - Mrs. Elisa Navarro. Área de Creación de Empresas de la UPM (Programa de Emprendimiento)

Planned date: 21st December, 2023

- **“Energy Management in the metallurgical industry”**
 - Mr. José María Tejera. Industrial Engineering. Head of Group in Process control and Energetic Planning at ATLANTIC COPPER.

Planned date: 1st February, 2024
- **“Digitalization”**
 - SIEMENS (lecturer to be confirmed)

Planned date: 8th February, 2024
- **"3D Printing Metal"**
 - Mrs. Rocío Muñoz. European Metal Material R&D Lead. HP.

Planned date: 15th February, 2024
- **“Production and Commercial Strategy of Sulphuric Acid as a by-product in the metallurgical plants”**
 - Mrs. Conchita García Carvajal. Senior Vice President Sulphuric Acid Business at ATLANTIC COPPER.

Planned date: 22nd February, 2024“
- **Energy transition and sustainability. Green Hydrogen”**
 - Mrs. Esther Alonso Álvarez. SVP Energy Transition and Sustainability. ATLANTIC COPPER :

Planned date: 29th February, 2024
- **Circular Economy in Non- ferrous metals metallurgy industry"**
 - Prof. Markus Reuter. Technical University of Freiberg. SMS Group Düsseldorf.

Planned date: 7th March, 2024
- **“The sustainable development in the metals industry”**
 - Mrs. Rosa García Piñeiro. Vicepresident of Sustainability at ALCOA.

Planned date: 14th March, 2024
- **“Current situation and future perspectives of traditional carbon materials versus new forms of carbon”**
 - Mrs. Rosa M^a Menéndez López. CSIC Researcher (Spanish National Research Council).

Planned date: 21st March, 2024
- **"The role of industry in the energy transition"**
 - Mrs. Blanca Losada. President. FORTIA ENERGIA. Advisor and Executive in the Energy and Technology Sector.

Planned date: 28th March, 2024

The Atlantic Copper Chair is a partner in the "SUMA MASTER PROGRAMME" project, funded by the EIT RawMaterials, whose main objective is to increase the efficiency of mineral resources and metallurgical processes, directing European innovation towards the generation of young engineers in the field of sustainable materials. Seven European universities (KU Leuven, MU Leoben, INP Grenoble, UNINT Trento, UNIMB Milano-Bicocca, AGH Krakow, UPM-Atlantic Copper Chair) are participating. And two companies: Umicore and Atlantic Copper.

CHAIRS DEPARTMENT

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