FEMS EUROMAT 23

03 - 07 Sep 2023 (Frankfurt am Main)

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FEMS EUROMAT is the most important international congress in materials science and technology in Europe. It continues a successful congress series promoting the transfer of knowledge and the exchange of experience between academia and industry. **Extended submission deadline: 15 March 2023**

Area B: Structural Materials

B02: Light Weight Metals

Light weight metals, including aluminum, magnesium, and titanium, are key materials for the development of many technologies to improve our lives and gain a sustainable future.

This symposium will be a meeting point for professionals and researchers on light weight metals to share their knowledge, show their advances, and discuss the exciting present and future of light weight materials, metal matrix composites, and high-entropy alloys.

Contributions related to novel materials or processing techniques, such as additive manufacturing or nanostructuration, and postprocessing methods, such as heat treatment, surface treatment, or coatings, are welcomed. Also, theoretical contributions, applied research, new technologies, and recycling are encouraged.

With the expected contributions, the symposium will be an excellent opportunity for knowledge exchange and networking for all the participants.

This symposium will cover, but is not limited to, the following range of topics:

- Alloy design including aluminum, magnesium, titanium alloys, and high-entropy alloys.
- Light weight metal composites, cellular materials, and foams.
- Advanced processing and nanostructuration.
- Additive manufacturing of light weight metals.
- Performance evaluation of light weight metals in different applications, environments, and conditions: mechanical, thermal, electrical, biocompatibility, wear, corrosion, ...
- Novel testing and characterization of light alloys.
- Modeling and simulation.
- Improvements in sustainability, recycling, and live cycle of light weight metals.
- Light weight metals for the achievement of the UN Sustainable Development Goals.

Symposium Organizer


Prof. Dr. Joaquín Rams
Rey Juan Carlos University


Dr. Belén Torres Barreiro
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