

Press Release

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12TH RANSHOFEN LIGHT METALS DAYS 2022 IN SALZBURG

AIT invites to "Green Processes & Sustainable Materials" conference: light metals, materials and process technologies in the context of decarbonization and digitalization

How can lightweight construction contribute to making mobility more sustainable? What possibilities are there for minimizing resource consumption in the aluminum industry by means of recycling and circular economy approaches? And what will the "Green Foundry 4.0" of the future look like? These and many other questions will be addressed by the 12th Ranshofen Light Metals Days 2022, which will be held from October 6 to 7, 2022, at the Mozarteum University in Salzburg. They are organized by the LKR Light Metal Competence Center Ranshofen of the AIT Austrian Institute of Technology.

Latest scientific findings

Under the title "Green Processes & Sustainable Materials", participants can expect an exciting program around digitalization and decarbonization in the field of process and material development as well as material characterization of light metals. A balanced spectrum of international presentations from university, non-university and industrial research will provide an up-to-date overview of the latest scientific findings and successful new light metal applications. All presentations have premiere character and thus offer a unique information advantage for the conference visitors.

Top-class sessions, first-class speakers

The individual presentations are thematically assigned to the following three sessions:

- Materials development and characterization
- Process development - experimental and numerical
- Future technologies

The sessions will be introduced by three exciting keynotes:

- Univ.-Prof. Dr. Nicola Hüsing (Paris Lodron University Salzburg):
Aerogels - The World's Lightest Solids: Challenges and Opportunities.
- PD DI Dr. Helmut Kaufmann (AMAG Austria Metall AG):
Challenges for the Aluminum Industry against the Background of the Green Deal
- Prof. Stewart Williams (Cranfield University):
The Contribution of Wire-based Directed Energy Deposition Additive Manufacture to Light Weight Structures and Sustainability.

In an accompanying industrial exhibition, well-known companies from industry, research and testing technology will present the latest trends and technologies from their fields. And in a poster

exhibition, young scientists will provide an insight into current research results. This "marketplace" for industry and science, as well as the traditional evening reception of the Light Metals Days, offer the best opportunities for networking and promote the development of project ideas and business relationships.

Lightweight construction as a key technology of the future

Henriette Spyra, MA, the head of Section III "Innovation and Technology" of the Federal Ministry for Climate Protection, Environment, Energy, Mobility, Innovation and Technology (BMK) will open the conference. She emphasizes the importance of lightweight construction for future mobility solutions and beyond: "Lightweight construction is a key technology of the future and enriches the entire automotive and vehicle construction, mechanical and plant engineering, aerospace, medical technology and the construction industry. The aim is to save weight through lighter materials and innovative designs. This is equally important for the environment, our climate and also for the competitiveness of the Austrian economy. At the national level, the BMK has consistently and reliably supported the lightweight construction community through the research funding programs that have been running in recent years on the topics of 'mobility turnaround' and 'production and materials', respectively."

The Light Metal Days as a Green Event

Dr. Christian Chimani, Head of Center for Low-Emission Transport at AIT and Managing Director of LKR, gives an outlook on the conference: "Top-class speakers, a renowned industry exhibition, as well as an impressive conference location make the Leichtmetalltage 2022 a unique opportunity to jointly find solutions for the current challenges of the industry. At the same time, we want to make an active contribution to environmental and climate protection with our event: thus, the Ranshofen Light Metal Days will be organized according to the criteria of the Austrian Eco-Label for Green Events."

We would like to thank the [Federal Ministry for Climate Protection, Environment, Energy, Mobility, Innovation & Technology \(BMK\)](#), [AMAG Austria Metall AG](#), [Gatan Inc](#), [voestalpine AG](#), [4a engineering GmbH](#), [HPI High Performance Industrietechnik GmbH](#) and [MELTEC Industrieofenbau GmbH](#) for their support!

About the LKR Light Metal Competence Center Ranshofen

With many years of experience in research and innovation for the lightweight construction of the future, the LKR Light Metal Competence Center Ranshofen of the AIT Austrian Institute of Technology is a leader in the development of high-quality light metal alloys, their sustainable and energy-efficient processing through to the development of functionally integrated lightweight components and their recycling.

Thanks to this holistic research approach, which is supported by simulation methods, new technologies such as wire-based additive manufacturing of light metals and innovative casting and forming processes are emerging.

Based on these new methods and know-how in the entire processing chain, the lightweight components developed by the LKR are widely used in the automotive and aerospace sectors.

Further links

[12th Ranshofen Light Metal Days 2022](#)

[AIT Center for Low-Emission Transport](#)

[LKR Light Metal Competence Center Ranshofen](#)

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