

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 C: Processing

C05: Joining

This symposium considers all kinds of research in the field of similar and dissimilar joining and welding techniques. Conventional, advanced, and new processes, as well as hybrid processes, are of interest. Process development & simulation, microstructure, properties, and performance of the weld/joint and the thermo-mechanically affected zone shall be covered for all kinds of materials.

Considered processes and topics include, but are not limited to, the following:

- welding techniques and phenomena
- post-weld heat treatment
- mechanical joining
- brazing and soldering
- ceramic joining
- plastic joining
- nanomaterials in joining
- physical properties controlling joining (wetting, diffusion, dissolution)
- microstructure and properties
- residual stresses and distortion
- modeling of welding and joining
- ecological and economical aspects of joining

Symposium Organizer



Dr. Ivan Kaban
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Graz University of Technology



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