

# FEMS EUROMAT23

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

## B06: Fatigue, Wear and Corrosion of Materials and Structures

Light-weight design, harsh operation conditions, extending safe service life, CO<sub>2</sub> efficient and new manufacturing routes, and multiscale materials simulation concepts are challenging issues to be addressed in today's mechanical design and testing of materials. This is, in particular, the case, when interactions between fatigue, wear, and environment, e.g., fretting fatigue,

- fretting fatigue,
- corrosion fatigue,
- thermo-mechanical fatigue,
- very high cycle fatigue,
- stress-corrosion cracking,
- tribo corrosion, etc.

need to be taken into account. The symposium addresses these interactions as "missing links" in

- mechanical materials characterization,
- modeling, simulation, and data-driven approaches.

Of course, any other contributions dealing with one of the aspects, fatigue, wear and corrosion of any type of engineering materials (metallic alloys, composites, polymers, etc.), are welcome.

### Symposium Organizer



Prof. Dr.-Ing. habil. Ulrich Krupp  
RWTH Aachen University



Prof. Dr. Thierry Palin-Luc  
ENSAM

