Stavanger, Norway

# EUROCORR 2025

7 - 11 September

# EUROPEAN CORROSION CONGRESS

## Joint session: “Corrosion and corrosion protection of additive manufactured metals for biomedical applications”

Additive manufacturing (AM) of metals for biomedical applications is by now a well-established concept as the design freedom and patient specific printing of implants is of high value and interest. Products with complex shapes, scaffolds, gradient compositions and structural features and even biodegradable metals can be made by AM, just to mention a few AM advantages.

Due to the unique microstructures of the AM metal alloys, bulk and surface properties are however generally quite different from the ones we know from the conventionally produced biometals. Some of those are corrosion resistance and surface functionalizing behaviour in the physiological environment.

In this session, we welcome presentations on the corrosion mechanisms of AM materials microstructure and 3D printed component surfaces obtained by the various Laser production methods for applications in the biomedical field as well as their corrosion protection strategies.

***Session organiser:***

- Prof. Iris De Graeve;
  Dr. Reynier Revilla, VUB, Belgium;
  TF AM: “Corrosion and Corrosion protection of AM metals”

- Dr. Patrik Schmutz, Empa, Switzerland;
  Dr. Sviatlana Lamaka, Helmholtz Zentrum Hereon, Germany
  TF MI: "Corrosion prediction for medical implants and devices"

**Expected duration: 0.5-**1 days

**Expected audience:** 40-50 persons

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**Please submit your abstract online via www.eurocorr.org before 17th of January 2025. We are looking forward to your contribution and participation in EUROCORR 2025, on September 7-11, 2025, in Stavanger, Norway!**