Announcement of a session on "Corrosion of Medical Implants and Devices"

EUROCORR THE ANNUAL CONGRESS OF THE EUROPEAN FEDERATION OF CORROSION
PRAGUE 2027
23TH INTERNATIONAL CORROSION CONGRESS
ICC PRAGUE2027

Don't forget…abstract submission deadline: January 31, 2027!

The electrochemical reactivity of metals and alloys in complex environments of the human body poses scientific and technological challenges for a broad range of biomedical applications. Contributions (also from clinicians and biologists) in the following topical areas are especially welcomed:

- Development of advanced *in vitro* setups (incl. relevant biological environments) for accurate corrosion prediction.
- Permanent metallic implant degradation, incl. related particle/ionic release:
  - Corrosion processes at joined and/or multi-material interfaces.
- Biodegradable metallic or composite implants:
  - *in vitro* and *in vivo* degradation mechanisms;
  - origins behind discrepancies;
  - surface treatments for controlled dissolution.
- Personalized implants:
  - modulated corrosion phenomena due to patient's illness/condition, implantation site, specific implant surface functionalization and coatings.
- Implantable devices and sensors:
  - Stability and functional lifetime under physiological and pathological conditions.
- Medical instruments:
  - passivation, labelling and new sterilization/ cleaning requirements.
- Analysis methods of the implant-biology interface, including computational predictions.

Session organisers:

Dr. Patrik Schmutz, Empa, Switzerland

Dr. Sviatlana Lamaka, Helmholtz Zentrum Hereon, Germany

Dr. Martina Cihova, Empa, Switzerland

TF/WP 2 - Corrosion of Medical Implants and Devices"

Expected duration:
2 days

Expected audience:
50-60 participants

EUROCORR The European Corrosion Congress

EFC EUROPEAN FEDERATION OF CORROSION

Please submit your abstract online via www.eurocorr.org before the end of January 2027. We look forward to your contribution and participation in EUROCORR & ICC 2027 (September 12-16, 2027, Prague, Czech Republic).