

THE WORLD COMES HERE.
TMS2024
153rd Annual Meeting & Exhibition

MARCH 3–7, 2024
HYATT REGENCY ORLANDO
ORLANDO, FLORIDA, USA
#TMSAnnualMeeting



SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2024 SYMPOSIUM:

ELECTRONIC, MAGNETIC, AND ENERGY MATERIALS

Advanced Functional and Structural Thin Films and Coatings

Functional thin films and coatings continue to be an area of innovation in the fields of physics, materials science, chemistry, and engineering. "Advanced Functional and Structural Thin Films and Coatings symposium" will cover all aspects of advanced thin films and nanomaterials for modern biological, electronic, optical, and photonic devices with applications in biological systems, photovoltaics, sensing, and display technologies. In addition, coatings, and engineered surfaces for the reduction of corrosion and wear as well as the use of lubricant-free (green) production and coatings for biomedical and health care applications will be of interest.

This symposium will include, but will not be limited to the following topics:

- Thin films and nanostructures for optoelectronics
 - Fundamental studies and modelling, photonics, plasmonics, sensors, flexible electronics
 - Multifunctional materials & devices
- Coating technologies and surface structuring for tools
 - Fundamentals & applications of lubricant-free (green) production
 - Methods to improve wear resistance and reduce friction
 - Functionalizing surfaces & interfaces
- Multifunctional biomaterials, innovative approaches to new concepts and applications
 - Functionalities of coatings/surface modifications
 - Methods to improve biocompatibility, cell proliferation and growth, antimicrobial behavior and metallic ion release, load-bearing prostheses, corrosion resistance, wear resistance, etc. under in vitro and in vivo conditions.

ORGANIZERS

Gerald Ferblantier, University of Strasbourg - IUT LP / ICube Laboratory - CNRS, France

Adele Carrado, University of Strasbourg - IUT LP / IPCMS - CNRS, France

Karine Mougín, CNRS / IS2M, France

Ramana Chintalapalle, University of Texas at El Paso, USA

Ravindra Nuggehalli, New Jersey Institute of Technology, USA

Heinz Palkowski, Clausthal University of Technology, Germany

SYMPOSIUM SPONSORS

TMS Functional Materials Division

TMS Thin Films and Interfaces Committee