

Conference Proceedings

Participants to Symposium B will have the option to submit their manuscripts to a Virtual Special Issue of 'Surface and Coatings Technology' journal (IF=6.1) from Elsevier. Submitted manuscripts will be reviewed following the same peer-review process as regular submissions.

Young Research Award (YRA)

To honor and encourage graduate students with excellent academic achievements, two awards (comprising a cash prize and a fee-waiver) will be granted to the two winners of the YRA. Applications must be sent through the [EMRS website](#).

International Scientific Committee

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Important deadlines

Abstract submission:	January 21, 2026
Abstract Acceptance:	March 3, 2026
Scientific Program (on-line):	April 2026
Manuscript submission:	July 10, 2026



2026 E-MRS Spring Meeting

Symposium B

Nano-engineered coatings and thin films: from design to applications

May 25-29, 2026

Strasbourg, France

Conference Venue

The 2026 Spring Meeting of the European Materials Research Society (E-MRS), organized in partnership with the Foundation Jean-Marie Lehn, will be held at the [Convention & Exhibition Centre of Strasbourg \(France\)](#), from [May 25 to 29, 2026](#). The conference will consist of 24 parallel symposia and more than 2000 participants are to be expected.

More information can be found on the EMRS website:

<https://www.european-mrs.com/meetings/2026-spring-meeting>



Symposium Description

The goal of the present symposium is to serve as forum for the exchange of information and expertise on the design and synthesis of **nano-engineered thin films** and **coatings** with tailored functionalities. Areas of interest include the following topics:

- **Fundamentals of thin-film growth:** Modelling of vapor- and plasma-based thin-film synthesis processes (PVD, CVD/ALD, hybrid processes), *in situ* growth monitoring and computational modelling
- **Design and fabrication techniques:** Novel approaches for design of self-organized nanostructures and low-dimensional materials, as well as plasma-based surface modification/functionalization
- **Characterization methods:** High-end nanoscale microscopic and spectroscopic characterization techniques, including *in situ* and operando techniques; nanomechanical testing
- **Functional coatings:** Multilayers, metastable alloys, high-entropy alloys; hard, wear-resistant coatings; thin films for photonic, optical devices, and sensors; thin films for energy storage, saving, and conversion,
- **Environmental impact and sustainability:** Novel coatings and surfaces for sustainable development, improved durability, and green energy

Symposium Organizers


Prof. Grégory Abadias

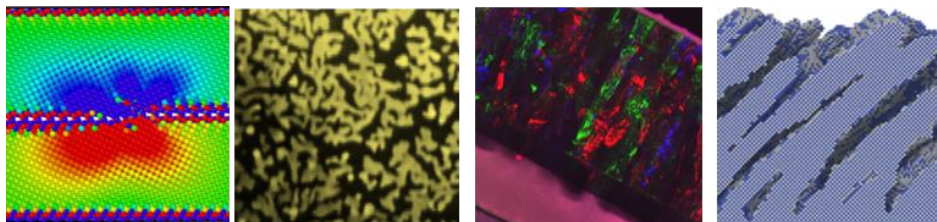
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Invited speakers

- **Claudia Cancelliari, EMPA, Swiss Federal Laboratories for Materials Science and Technology, Switzerland** 
"Interface Stress and Properties in metallic Nanomultilayers: Insights from Experimental and Computational Approaches"
- **Alberto Palmero, CSIC, Spain** 
"Fundamentals and Applications of porous Nanocolumnar Thin Films Grown at Oblique Angles: Perspectives and Challenges"
- **Jazmin Duarte, Max Planck Institute for Sustainable Materials, Germany** 
"Hydrogen barrier coatings: from permeation to mechanics"
- **Megan Cordill, Erich Schmid Institute of Materials Science, Austria** 
"Adhesion of polymer ice-phobic coatings for aerospace applications"
- **Erik Lewin, Uppsala University, Sweden** 
"Epitaxy and twinning in sputter-deposited cantor alloy thin films"
- **Nikola Koutná, Technical University of Vienna, Austria** 
"From ab initio descriptors to ML-powered molecular dynamics simulations of deformation and fracture processes in ceramics"
- **Philippe Steyer, MATEIS, INSA Lyon, France** 
"Advanced electron microscopy to better understand the dynamic of Thin Film Metallic Glasses"
- **Marcus Hans, RWTH Aachen University, Germany** 
"Thermal stability of hard coatings – Identifying the onset of thermal decomposition by combining high-resolution chemical and structural characterization"
- **Diederik Depla, Ghent University, Belgium** 
"Characterizing Species Journeys to the Substrate in Reactive Magnetron Sputtering"
- **Andrea Sand, Aalto University, Finland** 
"Insights from atomistic scale modelling of plasma-surface interactions"
- **Angelos Xomalis, NTNU Trondheim, Norway** 
"Cascading Disordered Optical Metasurfaces: How to Assemble and Simulate"