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TMS 2025
154th Annual Meeting & Exhibition



March 23–27, 2025
MGM Grand Las Vegas
Hotel & Casino
Las Vegas, Nevada, USA
#TMSAnnualMeeting



SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2025 SYMPOSIUM:

MATERIALS SYNTHESIS AND PROCESSING

Thin Films and Coatings: Properties, Processing and Applications

Thin films and coatings are specialized layers ranging from a few nanometers to several micrometers in thickness. They play an important role in improving the performance of materials across diverse applications. Understanding and optimizing the processes and properties of thin films and coatings is essential for enhancing their performance and functionality. This symposium primarily focuses on the latest developments and trends in deposition and synthesis of thin films and coatings for a variety of applications and environments, novel mechanical testing (including in-situ), advanced morphological characterization, modeling and simulation, and others. Topics related to linking processing-structure-property relationships are of particular interest.

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

- Advanced thin film deposition and synthesis techniques.
- Thin films & nanostructures for optoelectronic applications.
- Nano- and micro-scale mechanical testing and structural characterization.
- Coating technologies and surface structuring for tools.
- Thin films and coatings for extreme environments.
- Bioinspired multifunctional thin films and coatings.
- Modeling and simulation for predicting mechanical & electronic properties.
- Thin films and coatings for emerging applications in energy & biology.

ORGANIZERS

Tomas Grejtak, Oak Ridge National Laboratory; **Gerald Ferblantier**, University of Strasbourg - IUT LP / ICube Laboratory - CNRS; **Tomas Babuska**, Sandia National Laboratories; **Ramana Chintalapalle**, University of Texas at El Paso; **Karine Mougín**, Cnrs, Is2m; **Brandon Krick**, Famu-Fsu College Of Engineering

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TMS Functional Materials Division, TMS Thin Films and Interfaces Committee

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QUESTIONS?

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