



FCSE - 2027

1st ANNOUNCEMENT www.fcse-montreal.ca



11th Symposium on

FUNCTIONAL COATINGS AND SURFACE ENGINEERING

Organized by

RQMP - Regroupement québécois sur les matériaux de pointe and the St. Lawrence Chapter of the **AVS** Science and Technology of Materials, Interfaces and Processing, in collaboration with **SVC** - Society of Vacuum Coaters and **IUVSTA** - International Union for Vacuum Science, Technique and Applications, and hosted by **Polytechnique Montréal** and **Université de Montréal**

SYMPOSIUM TOPICS

- Thin films with tailored optical, mechanical, tribological, electro-chemical, electrical, thermal and other functional properties
- Vacuum and non-vacuum deposition processes, process control and diagnostics
- Plasma processes and plasma-surface interactions
- Thin film systems for passive and active optical filters with enhanced durability
- Modeling and predictive tools for processes and coating performance
- Protective tribological coatings with enhanced wear, scratch, abrasion, erosion, oxidation and corrosion resistance, hydro- and icephobicity and other functionalities
- Characterization methods: microstructure, composition and functional properties
- Thin film materials and systems for optical, optoelectronic, aerospace, outer-space, energy-control, biomedical, micro-system, sensor, energy and other applications
- Residual stress in films and coatings – origin, assessment and mitigation
- Surface and interface engineering approaches for the control of adhesion, stress and environmental stability
- Life cycle analysis for surface engineering solutions

**MONTREAL
QUEBEC
CANADA**

**JUNE 6-10
2027**

PROGRAM AND SCHEDULE

Short courses (full day) – Sunday, June 6, 2027

- Thin film growth in reactive environments
- Plasma processing of materials
- Stress in films and coatings - Its origin and assessment

Symposium technical program – Monday, June 7 - Wednesday, June 9, 2027

- Invited lectures and contributed oral presentations - Poster presentations - Awards for the best posters -
- Table-top exhibit by manufacturers and vendors - Visit of research facilities - Symposium reception and social networking event

Hands-on workshops (full day) – Thursday, June 10, 2027

- "Nanomechanical and tribological testing"
- "Optical characterization and reverse engineering - Spectroscopic ellipsometry"
- "Microstructural and compositional analyses"

ORGANIZERS OF THE FCSE-2027 SYMPOSIUM

MEETING CHAIRS | Ludvik Martinu and Jolanta E. Klemberg-Sapieha
Department of Engineering Physics, Polytechnique Montréal

MEMBERS OF THE LOCAL ORGANIZING COMMITTEE | P. Avila, B. Baloukas, E. Bousser, S. Brown, J. Lefebvre, A. Pajak, C. Paquet, P. Rumsby, F. Schiettekatte, O. Zabeida

RQMP CHAIRS | D. Bouilly, I. Garate, L. Martinu, M. Massicotte, T. Pereg-Barnea, B. Siwick
(www.rqmp.ca)

**POLYTECHNIQUE
MONTREAL**

Université 
de Montréal

