







10th 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, 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 system 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

JUNE 2-5 2024

MONTREAL

QUEBEC

CANADA

PROGRAM AND SCHEDULE

Short courses (full day) - Sunday, June 2, 2024

Materials science and film growth

Plasma processing of materials

Mechanical, tribological and structural characteristics

Symposium technical program - Monday, June 3 and Tuesday, June 4, 2024

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) - Wednesday, June 5, 2024

"Mechanical and tribological testing"

"Optical characterization and reverse engineering - Spectroscopic ellipsometry"

"Microstructural and compositional analyses"

ORGANIZERS OF THE FCSE-2024 SYMPOSIUM

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

MEMBERS OF THE LOCAL

M. Azzi, B. Baloukas, S. Brown, J. Lefebvre, A. Pajak, C. Paquet, ORGANIZING COMMITTEE P. Rumsby, F. Schiettekatte, O. Zabeida

RQMP CHAIRS | D. Cooke, D. Danovitch, L. Martinu, T. Pereg-Barnea, F. Schiettekatte, L. Taillefer (www.rqmp.ca)





