

Seminar organized by FunMat-II

Latest advances in characterization and modelling of high temperature properties in coating materials

Date: June 9, 2022
Time: 13.00-16.00
Place: Teams

Program

- 13.00 Welcome, short presentation of FunMat-II
Magnus Odén (Linköping University)
- 13.05 Latest advances in synthesis and characterization of materials at high-pressure and high-temperature conditions
Natalia Dubrovinskaia (University of Bayreuth/Linköping University)
- 13.35 High temperature properties of materials using machine learned interatomic potentials
Ferenc Tasnadi (Linköping University)
- 13.55 Break
- 14.10 High-Temperature Micromechanics of Hard Coatings: Challenges and Prospects
Fedor Klimashin (Empa Materials Science and Technology)
- 14.40 High temperature behavior of hard coatings using in situ HE-XRD
Lina Rogström (Linköping University)
- 15.00 Break
- 15.15 Brillouin spectroscopy of ultra-thin membranes
Bartłomiej Graczykowski (Adam Mickiewicz University)
- 15.45 Summary and conclusion
- 16.00 End of seminar

For any questions regarding the seminar, please contact:

Emma Björk, emma.bjork@liu.se

Register here >>

No later than June 7.

Participation is free of charge for all participants, but registration is required.



FunMat-II (Functional Nanoscale Materials) is a second generation competence center in material science, financed by Vinnova (the Swedish agency for innovation systems). FunMat-II is focusing its efforts to three application areas: functional surfaces for cutting tools, fuel cells, and batteries. We obtain basic knowledge about materials behavior and the physics and chemistry of the synthesis processes, and design new materials with unique properties. Besides this, we study how the materials perform in specific applications. We study all aspects using combinations of theory, modelling, experiments, and field tests. The information obtained is generic and can be applied to a wide range of applications, which makes FunMat-II a true competence center in functional surfaces optimized at the nanoscale. For more information about FunMat-II: www.funmat-ii.se.

