Seminar organized by FunMat-II
Analytical microscopy and spectroscopy for characterization of coatings

Date: November 24, 2021
Time: 13.00-16.40
Place: Teams

Program

13.00   Welcome, short presentation of FunMat-II
               Magnus Odén (Linköping University)

13.05   Transmission view of surfaces - solids or liquids
               Reine Wallenberg (Lund University)

13.35   Towards reliable X-ray photoelectron spectroscopy of thin films grown by PVD
               techniques
               Grzegorz Greczynski (Linköping University)

13.55   Break

14.10   Uncovering materials properties down to the sub-nanometer level through correlative
               microscopy
               Oana Cojocaru-Mirédin (RWTH Aachen University)

14.50   Scanning electron microscopy analysis of coatings; from image optimisation to
               latest developments
               Robert Boyd (Linköping University)

15.10   Break

15.30   Studies of hard coatings - from EBSD and TKD to TEM
               Mats Halvarsson (Chalmers University of Technology)

16:00   Application of correlative EBSD, SIMS and APT for sample preparation and analysis
               Jenifer Barrirero (Saarland University)

16.20   ARTEMI – a national research infrastructure in advanced electron microscopy
               Per Persson (Linköping University)

16.30   Summary and conclusion

16.40   End of seminar

For any questions regarding the seminar, please contact:
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Register here >> https://comm.ri.se/b/v?event=1204&ucrc=AD0024211A
No later than November 22.

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.