



*Turku University Centre for
Materials and Surfaces*

13th Annual MatSurf Seminar

Monday 04.11.2019 in the Department of Physics and Astronomy, Quantum Auditorium

10.30 **Opening of the seminar:** NN

10.35 Ermei Mäkilä and Dr. Sari Granroth (Industrial Physics + Materials Research Labs)
*New research infrastructure for surface and materials characterization at the
Department of Physics and Astronomy*

11.00 Sergio E. Domínguez (Lab of Materials Chemistry and Chemical Analysis)
Studies on cationic polythiophenes with hydrogen-bonding donor capabilities

11.20 **Invited lecture:** Prof. Laeticia Petit (Tampere University)
Glass development to improve the performance of the material

12.10 Lunch break

13.20 Dr. Muhammad Yasir (Materials Research Lab)
Segregation and surface diffusion of Al in FeAlCr alloy

13.40 Mukarram Khan (Wihuri Physical Lab)
*Enhanced flux pinning isotropy by tuned nanosized defect network in superconducting
YBa₂Cu₃O_{6+x} films*

14.00 **Invited lecture:** Dr. Ville Saarimaa (Top Analytica Oy Ab, Turku)
Nanorange X-ray analysis

14.50 Oral poster presentation (max 2 minutes one slide / poster)

15.10 Poster session (open end with snacks and drinks).

On behalf of the MatSurf board
Kurt Gloos



Turun yliopisto
University of Turku



POSTERS (presenting author in alphabetical order, as of 22.10.2019)

1) Hannah Byron

A rapid, zeolite-free synthesis of the optically versatile mineral hackmanite

2) Lokesh Kesavan

Electro-catalytic Reduction of CO₂ Using Supported Au, Pd Nanoparticles

3) Sachin Kochrekar

Spectroscopic and theoretical investigation of keto functionalized porphyrin polymers

4) Adefunke Koyejo

Electrocatalytic evaluation of biobased reduced graphene oxide supported on Au nanoparticles for carbon dioxide reduction

5) Zahra J. Rad

Modification of chemical Si-surface cleaning with vacuum treatment

6) Elmeri Rivasto

Growth of the nanorods within YBCO films deposited on an advanced IBAD-MgO template