Tuesday 14 December 2021(Central European Time)

8:45 -9:00 Logging in

9:00 – 9:55 Invited lecture
Gert Nolze, Federal Institute for Materials Research and Testing (Berlin):
"Lattice parameters from Kikuchi patterns: Better than nothing?"

9:55 – 10:55 Session 1 (chairperson: Marek Faryna)

9:55-10:07 **Zbigniew Mitura**, AGH-UST (Krakow):
"Discussion of elastic and inelastic effects for RHEED patterns, for SrTiO3"

10:07-10:19 **Peter Schweizer**, EMPA (Thun):
"Low energy nano diffraction in SEM"

10:19-10:31 **Katarzyna Berent**, AGH-UST (Krakow):
"The toughening mechanism of the columnar calcite prismatic microstructure"

10:31-10:43 **Maciej Szczerba**, Institute of Metallurgy and Materials Science PAS (Krakow):
"EBSD method in studies of face-centered cubic detwinning systems"

10:43-10:55 **Vivian Tong**, National Physical Laboratory (Teddington):
"Characterising deformation in tungsten carbide micropillars using EBSD"

10:55 – 11:10 Coffee break

11:10 – 12:05 Invited lecture
Tomasz Tokarski, AGH-UST (Krakow):
"Mapping of local lattice parameter ratios by direct lattice metric reconstruction"

12:05 – 13:08 Session 2 (chairperson: Robert Chulist)

12:05 -12:17 **Łukasz Rychłowski**, , AGH-UST (Krakow):
"Optimization of projection center based on EBSD Kikuchi bands intensity profiles"

12:17-12:29 **Aleksandra Kozłowska**, Silesian University of Technology (Gliwice):
"Application of the EBSD method for microstructural analysis of medium-Mn steels with retained austenite"

12:29-12:41 **Szilvia Kalácska**, CNRS (Saint-Étienne):
"3D HR-EBSD applications in the field of micromechanics

12:41-12:53 **Erika Griesshaber**, Ludwig-Maximilians-Universität München:
"The phenomenon of twinning in carbonate biological structural materials"

12:53-13:08 (15 minutes) **Wolfgang Wisniewski**,
"The complicated information depth of EBSD"

13:08 – 14:05 Lunch break

14:05 – 15:00 Invited lecture
Marek Faryna, Institute of Metallurgy and Materials Science PAS (Krakow),
"EBSD from non-conductive materials. From single maps to three dimensional experiments"

15:00 – 16:12 Session 3 (chairperson: Piotr Bała)

15:00-15:12 **René de Kloe**, Ametek:
"Reconstructing parent microstructures from EBSD based orientation measurements"

15:12-15:24 **Patrick Trimby**, Oxford Instruments NanoAnalysis:
"Extracting more information about dislocations from regular EBSD datasets"

15:24-15:36 **Daniel Goran**, Bruker Nano:
"Recent developments for the characterization of nanomaterials using on-axis TKD in SEM"

15:36-15:48 **Jakub Kawałko**, AGH-UST (Krakow):
"Deformation mechanisms in hexagonal metals and alloys"

15:48-16:00 **Krzysztof Muszka**, AGH-UST (Krakow) :
"Through scale rheology assessment of Ti6246 alloy as a tool to design its forging process window"

16:00-16:12 **Mateusz Kopeć**, Institute of Fundamental Technological Research (Warsaw):
"EBSD characterisation of titanium alloys"

16:12-16:24 Coffee break

16:24 – 17:30 Session 4 (chairperson: Łukasz Madej)

16:24-16:36 **Bartosz Chmiela**, Silesian University of Technology (Katowice):
“Application of EBSD to texture analysis in cold-rolled ferritic-austenitic steels”

16:36-16:48 **Bartłomiej Winiarski**, Thermo Fisher Scientific (Brno):
“Current developments in 3D EBSD using femtosecond laser plasma-FIB-SEM”

16:48-17:00 **Alice Bastos da Silva Fanta**, Danish Technical University (Lyngby):
“Adding a new imaging capability to an on-axis TKD detector”

17:00-17:12 **Jakub Holzer**, Thermo Fisher Scientific (Brno):
“Advances in reflection Kikuchi diffraction (RKD) for large area mapping and high-resolution analysis”

17:12-17:18 (6 minutes) **Damian Kalita**, Łukasiewicz Research Network - Institute of Microelectronics and Photonics (Warsaw):
“On the deformation mechanisms in metastable β-phase titanium alloys”

17:18-17:30 **Benedykt R. Jany**, Jagiellonian University (Krakow):
“SEM EBSD dictionary based indexing as a tool for titanium oxides phase identification at nanoscale”

17:30 – 18:25 Invited lecture,
Ben Britton, University of British Columbia, (Vancouver):
“Exploring structure and chemistry with correlative Electron Backscatter Diffraction and Energy Dispersive X-ray Spectroscopy"”

18:31 – 18:35 Concluding remarks