

Programme

08:30-08:50 **Registration**

08:50-09:00 **Opening**

09:00-11:00 **Session 1 ADVANCED CHARACTERIZATION METHODS**

Chair Liliana Mitoseriu

Catalin Harnagea (Invited) Characterization of individual multifunctional nanoobjects with restricted geometry

Michael Koblishka (Invited) Applications of the electron backscatter diffraction (EBSD) technique to ceramic materials

Alan Hurd (Invited) Neutron, X-ray, and Proton Characterization of Complex Materials

Robert Freer Atomic-Resolution High-Angle Dark-Field Scanning Transmission Electron Microscopy (HAADF-STEM) and EELS Chemical Analysis of Functional Ceramics

Martin Kempa Microwave Characterization of Films and Substrates by Thin Dielectric Resonators

11:00-11:10 **Coffee break**

11:10-13:10 **Session 2 FEROICS AND MULTIFEROICS**

Chair Robert Freer

Cathy Elissalde (Invited) Linking Architecture, Interface and Functionalities in Ferroelectric Multi-Materials

José F. Fernández Domain structure of (K,Na)NbO₃ by Confocal Raman Microscopy

Bartłomiej Andrzejewski Magnetic properties of BiFeO₃ micro-cubes synthesized by microwave agitation

Leo McGilly Ferroelectric Superdomains

Ewa Markiewicz BiFeO₃ single crystal as resistance switching member for application in microelectronic devices

Cristina Ciomaga Low field permittivity of ferroelectric-ferrite ceramic composites. Experiment and modeling

Karel Maca The influence of sintering atmosphere on the phase purity of bulk Eu(Ba, Sr)TiO₃ ceramics

13:10-14:10 **Lunch**

14:10-16:10 **Session 3 THIN FILMS AND CONFINED STRUCTURES**

Chair. Paolo Nanni

Lucian Pintilie (Invited) Interfaces, structure and electrical measurements in ferroelectric thin films

Marina Tyunina (Invited) Epitaxial ferroelectric films: experiment questions theory
Paula Ferreira New strategies to prepare multiferroic thin films
Kaupo Kukli Atomic layer deposition of bismuth ferrites
Carlo Baldisserri Integration of Niobium-Doped Lead Zirconate Titanate on Bare Silicon Wafer by Electrophoretic Deposition
Andreja Gajovic Raman spectroscopy study of phase transitions in BaTiO₃ nanorods

16:10-16:20 **Coffee break**

16:20-17:50 **Session 4 FUNCTIONAL CERAMICS**

Chair Michael Koblischka

Miguel Algueró Electrical properties of ferroelectric BiMnO₃-PbTiO₃ under tailored synthesis and ceramic processing
Hana Uršič Properties of Pb(Sc_{0.5}Nb_{0.5})O₃ and 0.57Pb(Sc_{0.5}Nb_{0.5})O₃-0.43PbTiO₃ ceramics prepared by mechanochemical synthesis
Klara Castkova Synthesis and sintering of Ba_{0.7}Sr_{0.3}TiO₃ ceramic
Lavinia Curecheriu Ferroelectric-relaxor crossover in Ce-doped BaTiO₃ ceramics
Marco Deluca Raman spectroscopy of B-site modified barium titanate ceramics
Brygida Dzidek Technology of PLZT ceramics micro fibres for multiferroics composites

17:50-18:00 **Coffee break**

18:00-19:00 **POSTER SESSION**

Chair. Marina Tyunina

Scheduled duration of talks: invited – 30 min., regular – 15 min.