

EXMONAN

AMSTERDAM (The Netherlands) from 25-29 June, 2018

BOGDAN SEPIOL

Curriculum Vitae

First names: Bogdan Jan
Date of birth: 17th October 1959
Place of birth: Jaslo, Poland
Civil status: Married, two children

Education

2002 Appointment to an ao. Univ.-Prof. at the University of Vienna
2001 Habilitation for Experimental Physics at the University of Vienna
1989 Dr. rer. nat. of Physics at the Institute of Nuclear Physics, Cracow
1986 - 1987 Military service
1983 - 1989 Doctoral thesis at the Institute of Nuclear Physics, Cracow
1983 Mag. rer. nat. of Physics at the Jagiellonian University in Cracow
1982 - 1983 Diploma thesis at the Institute of Nuclear Physics, Cracow
1978 - 1983 Student of physics, Jagiellonian University, Cracow
1974 - 1978 Secondary school in Jaslo, Poland
1966 - 1974 Primary school in Jaslo, Poland

Research Fields

The key research area of the author is the study of the properties of materials by scattering and by simulation techniques. The focus is on dynamics (diffusion and phonons) and kinetics of condensed systems, in particular metallic films, intermetallic alloys, as well as metallic glasses and fast ionic conductors. The author is interested in atomistic diffusion mechanism in intermetallic compounds, in nano-clusters diffusion in bulk metallic alloys and in diffusion and relaxation in thin layers and on the surface. The phonon spectroscopy forms the basis of dynamics studies in thin layers and in nanocrystals and of the growth kinetics and dynamics of nano-clusters on surfaces.

Key tools are X-ray scattering combined with in-situ experiments, materials dynamics with nuclear resonant and neutron scattering methods, synchrotron radiation based experiments, atomic jump processes and kinetics of ordering in intermetallic alloys.

Methods: Mössbauer spectroscopy, Nuclear Resonant Scattering, Grazing Incidence Nuclear Resonant Scattering, Nuclear Inelastic Scattering, X-ray diffraction, Small-Angle X-ray Scattering, X-ray Photon Correlation Spectroscopy, Dynamic Light Scattering, Monte Carlo simulations.