

Bringing

Discovery to Life

Scientist Biography



Oleg Rubel, PhD.
Scientist

EDUCATION

- M.Eng., Zaporozhye State Technical University, Ukraine (1997)
- Ph.D. in Material Science, Zaporozhye State Technical University, Ukraine (2001)

APPOINTMENTS AND AFFILIATIONS

- Adjunct Professor, Department of Physics, Lakehead University; 2008 – present
- Central Technology Laboratory, Material Science Centre and Department of Physics, Philipps-University Marburg, Germany; 2003-2008
- Department of Aircraft and Manufacturing Engineering, Zaporizhzhya National Technical University, Ukraine; 2000-2003

RESEARCH AREAS OF FOCUS

Dr. Rubel's research is primarily concerned with the structure, electronic and optical properties of condensed matter. In particular these include:

- Hopping transport of charge carriers in disordered semiconductors (amorphous, organic compounds, polymers)
- Trapping, recombination, and lifetime of photogenerated excitations in disordered semiconductor nanostructures (quantum wells, quantum dots, as well as bulk solids)
- Ab initio and empirical potential calculations of structural properties for III-V semiconductor alloys
- Transmission electron microscopy (TEM) and dark-field TEM imaging of III-V semiconductor alloys

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