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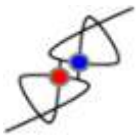

CV

EDUCATION and POSITIONS

- Professor at SUT since 2009.
- Habilitation in Physics completed in June 2004, "Brillouin spectroscopy in crystal lattices - acoustic and spin waves", Gdansk University, Institute of Experimental Physics, Department of Mathematics, Physics and Computer Science, Gdansk, Poland;
- PhD in Physics completed in Jan. 1998: with honors, the dissertation title: "Application of Brillouin scattering to the analysis of acoustic properties of piezoelectric crystals", Silesian University of Technology, Institute of Physics, Gliwice, Poland;
- MSc in Physics completed in 1988, Pedagogical University, Institute of Physics, Krakow, Poland;

EXPERIENCED IN

- Spin waves and GHZ phonons optical spectroscopy (Brillouin light scattering - BLS);
- Optical and mechanical system design for spectroscopy, luminescence, medical imaging, and magneto-optics;
- Work with lasers (gas, solid-state) and optical system alignment;
- Raman spectroscopy of semiconductors surfaces;
- Laboratory electrical and optical measurements, including microscopic techniques;
- Software: Office, C++, Pascal, Windows, Linux;
- Reviewing of scientific manuscripts (Optical Society of America, AIP, Elsevier, SPIE) and scientific projects (national and international);
- Edition of conference proceedings;
- Editor, Condensed matter physics, CEJP, Versita-Springer;

LANGUAGES

- English (spoken and written), German (basic), Russian (basic);

MEMBERSHIP

- Polish Physical Society;
- Optical Society of America;

LABORATORY EQUIPMENT DESIGNED AND CONSTRUCTED

- Brillouin spectrometer with pressure scanned Fabry-Perot interferometer (2 patents);
- Experimental system for low-level-intensity light detection (single photon counting);
- The system for photoluminescence measurements from semiconducting surfaces;

- The system for human eye medical diagnostics using CCD camera and LC filter detection;
- The system for endoscope-based medical diagnostics using CCD camera and LC filter detection;
- The system for diffracted magneto-optic Kerr effect (DMOKE) experiments;
- Computer cluster for numerical simulations (20 cores), LLG equation;
- A simulator for testing magnetization dynamics in low-dimensional structures on a base of Ising-type models;

PARTICULAR RESEARCH INTERESTS

- Optical spectroscopies - in crystals, metallic superlattices, semiconductors, thin layers, multilayers; acoustic phonons and magnons - BLS, MOKE, DMOKE, photoluminescence;
- Medical multispectral imaging and image processing;
- Computer simulations of physical phenomena, parallel computing (Magpar), OOMMF, textile magnetism;
- Physics of textiles; magnetism of textiles & textile magnets incl. optical methods;
- Magnetoelectronics, exchange-bias, magnetic effects in low-dimensional structures, magnetization dynamics, spintronics by optical methods;
- Quantum computations;

EMPLOYMENT

- 1998 - present: Institute of Physics - Center of Science and Education, Professor at Silesian Technical University, Gliwice, POLAND;

SCIENTIFIC VISITS

- RWTH Aachen, Germany, September 2001 (DAAD Award);
- University of Illinois at Urbana-Champaign, USA, February-March 2002 (Visiting Scholar);
- RWTH Aachen, Germany, August 2003 (Visiting Scientist);
- Technical University of Chemnitz, Germany, June 2005 (Visiting Scientist);
- RWTH Aachen, Germany, July-August 2005 (DAAD Award);
- L'Aquila University, Italy, 23-29 April 2006, Seminar;
- RWTH Aachen, Germany, August 2009, consultations;
- JRS Scientific Instruments, Zwillikon, Switzerland, Nov. 2009, technical consultations;

IMPORTANT GRANTS MANAGED

- Experimental analysis of elastic constants dispersion relations in the piezoelectric crystals of similar crystallographic symmetry - theoretical analysis based on the coherent states formalism;
- Investigations of quantum effects in low-dimensional, metallic Co/Cu structures by Brillouin laser light scattering;
- Investigation of magnetization dynamics in low dimensional ferromagnetic structures using computer cluster and parallel computing method;

TEACHING EXPERIENCE

- Optics, Faculty of Mathematics and Physics;
- Fractal and Wavelet Analysis of Signals and Pictures, Faculty of Mathematics and Physics;
- Contemporary Physics, and General Physics, Faculty of Mechanical Engineering;

- Computer Simulations of Physical Phenomena, Faculty of Mathematics and Physics;
- Technical Physics, Faculty of Organization and Management;
- Technology of Nanomaterials, Faculty of Mathematics and Physics;
- Signal processing, Faculty of Mathematics and Physics;
- Spintronics, Faculty of Mathematics and Physics;
- Quantum Physics of Low-dimensional Structures, Faculty of Mathematics and Physics;

BASIC PERSONAL DATA

- Gender: MALE
- Date of the birth: 9 APRIL 1963
- Married, 3 children (2G+1B).