

# CURRICULUM VITAE

## *Dmitri A. Tenne*

**Current Position:** Assistant Professor  
Department of Physics  
Boise State University  
Boise, ID 83725-1570

Tel: 1-208 426-1633  
Fax: 1-208 426-4330  
E-mail: dmitritenne@boisestate.edu  
Web page: www.boisestate.edu/physics/tenne/

### **Education:**

1996 – PhD in physics, Institute of Semiconductor Physics, Russian Academy of Sciences, Novosibirsk, Russia  
1990 – Diploma (M.Sc.) in physics, Novosibirsk State University, Novosibirsk, Russia

### **Professional history:**

07.2006 – present Department of Physics, Boise State University Assistant Professor  
11.2000 – 07.2006 Department of Physics, the Pennsylvania State University; Research Associate  
1990 – 2000 Institute of Semiconductor Physics, Novosibirsk, Russia;  
Junior Research scientist; Research Scientist; Senior Research Scientist  
1998 – 2000 Chemnitz Technical University, Chemnitz, Germany, Visiting Scientist – several 2-3 month visits.

### **Research interests and experience:**

- Primary area of current research: multifunctional oxide and semiconductor materials and nanostructures for electronic and optoelectronic applications: Ferroelectric and multiferroic thin films and superlattices; semiconductor nanocrystals and quantum dots studied by optical spectroscopic techniques (Raman, infrared, UV, photoluminescence, reflectivity).
- Other areas of past experience include:
  - a variety of novel materials and structures: various semiconductor materials and nanoparticles, vertical-cavity surface-emitting lasers, organic semiconductor crystals and films, diamond films, chalcogenide glasses, superconducting MgB<sub>2</sub> films;
  - techniques for materials and device structures synthesis and characterization: ultra high vacuum growth techniques (organic molecular beam deposition, molecular beam epitaxy), pulsed laser deposition, low-temperature optical and electrical measurements, X-ray diffraction, surface characterization by low energy electron diffraction and Auger spectroscopy, CV, Hall and dielectric measurements

### **Fellowships, grants and awards:**

- Research grant from the National Science Foundation: “Lattice Dynamics and Phase Transitions in Nanoscale Ferroelectric Heterostructures” (2007–2010).
- Cottrell College Science Award from the Research Corporation (2007–2009).
- Research grant from the Volkswagen Foundation, Germany “Synthesis and optical investigation of novel semiconductor self-assembled quantum dot structures” (2001–2004)
- The State Fellowship of the Russian Federation for Outstanding Young Scientists (1997 – 2000)
- Research fellowship from the Saxonian Ministry of Sciences and Arts, Germany (1998)
- Outstanding Young Scientist Fellowships from the Siberian Branch of the Russian Academy of Sciences and the Institute of Semiconductor Physics, Novosibirsk, Russia (1996–2000)
- Several research grants from the Russian Foundation for Fundamental Research (1998–2000, 2001–2003)
- Personal Grant from the International Science Foundation (1993)

### **Publications and presentations**

Over 70 technical papers in refereed journals, conference proceedings and book chapter. Currently about 550 citations in scientific journals. Over 40 presentations at international scientific meetings and research seminars, including 5 invited talks.

### **Teaching experience:**

- PHYS 330 Optics
- PHYS 334 Optics Lab
- PHYS 415/515 Solid State Physics
- PHYS 423/523 Physical Methods of Materials Characterization
- PHYS 211 and 212 Labs

### **Other professional activities:**

*Technical proposal reviewer* for National Science Foundation

#### ***Technical Journal Referee:***

- Physical Review Letters
- Physical Review B
- Applied Physics Letters
- Journal of Applied Physics
- Journal of Physics and Chemistry of Solids
- Physica Status Solidi
- Advanced Materials
- Physica B: Condensed Matter
- Physica E: Low-dimensional Systems and Nanostructures
- Journal of the American Ceramic Society
- IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control

#### ***Professional Society Membership:***

- American Physical Society
- Materials Research Society
- American Ceramic Society