

EDUCATION

Ph.D. Wayne State University (Chemistry), Detroit, MI, USA, 1993-1996

M.S. Moscow State University (Chemistry), Moscow, Russia, 1987-1992

PROFESSIONAL EXPERIENCE

Director of Crystallography, Chemistry Department, University of Wisconsin-Madison, WI, USA, 2000-present

Head of the X-Ray Crystallography Laboratory, Iowa State University, IA, USA, 1998-2000

NATIONAL AND INTERNATIONAL SERVICE

Poster session chair at the American Crystallographic Association meeting, 2011-2013

Visiting Professor, University of Johannesburg, Johannesburg, South Africa, 2008, 2010, 2012

Visiting Scientist, Grinnell College, Grinnell, Iowa, USA, 2009, 2012

Co-editor of Acta Crystallographica C (International Union of Crystallography publication), 2005-present

Administrator of two professional crystallographic internet-based newsgroups, 2000-present

Developer of crystallographic nomenclature for the International Union of Crystallography, 2006-2011

Invited speaker and instructor for a crystallography course at the National Polytechnic Institute, Mexico City, Mexico, 2006

Invited instructor for a theoretical chemistry/crystallography course, University of the Western Cape, Bellville, South Africa, 2004

HONORS AND SCHOLARSHIPS

Academic Staff Excellence Early Career Award, College of Letters and Science, University of Wisconsin-Madison, Madison, WI, USA, 2009

The Institute of Manufacturing Research Graduate Fellowship, Wayne State University, Detroit, MI, USA, 1994-1996

Laureate of Stanley Kirschner Graduate Award in Inorganic Chemistry at Wayne State University, Detroit, MI, USA, 1995

Chemistry Department of Moscow State University Academic Achievement Bursary, Moscow, Russia, 1987-1992

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Crystallographic Association, USA

American Chemical Society, USA

Struchkov Prize Society, USA-Russian Federation

International Union of Crystallography

Phi Lambda Upsilon, Alpha Psi Chapter, Honorary Chemical Society, Wayne State University, Detroit, MI, USA, 1995

MEETINGS ORGANIZED

Chair, "19th Bruker Users Meeting", Bruker-AXS, Madison, WI, September 25-27, 2011

Chair, "17th Bruker Users Meeting", Bruker-AXS, Madison, WI, May 31-June 2, 2009

Chair, "Mini-symposium on Structural Chemistry to celebrate Professor Larry Dahl's 80th birthday", Chemistry Department, UW-Madison, Madison, WI, May 29-May 30, 2009

Chair, "15th Bruker Users Meeting", Bruker-AXS, Madison, WI, September 16-18, 2007

Coordinator, "Structural Methods in Chemistry, Biology and Medicine", Struchkov Prize Society, Chicago, IL, August 10-13, 2007

Chair, "13th Bruker Users Meeting", Bruker-AXS, Madison, WI, September 22-23, 2005

Chair, "12th Bruker Users Meeting", Bruker-AXS, Madison, WI, May 18-20, 2003

Chair, "11th Bruker Users Meeting", Bruker-AXS, Madison, WI, May 20-22, 2001

RESEARCH ACTIVITIES

Crystallographic software design and development;

Investigation of solid-state phase transitions

Theoretical background and software development for characterization of steric interactions among the ligands in organometallic compounds;

Application of the constructor graph representation of intra and intermolecular interactions in the solid state;

Synthesis, spectroscopic and structural characterization, and molecular modeling of early transition metal complexes with pyrazolato and tetrazolato ligands;

Variable temperature single-crystal X-ray diffraction studies of solid state phase transitions in organic and organometallic compounds.

PUBLICATIONS AND PRESENTATIONS (441)

Papers on independent research (31)

Papers on crystallography (58)

Presentations at national and international meetings (17)

Invited lectures and courses (13)

Collaborative papers and meeting presentations (322)