

PROF. SVILEN BOBEV

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Professional Appointments

- 09/2015 – Present Professor, Department of Chemistry and Biochemistry, University of Delaware
- 09/2011 – 09/2015 Director of Graduate Studies and Assistant Chair, Department of Chemistry and Biochemistry, University of Delaware
- 09/2010 – 08/2015 Associate Professor, Department of Chemistry and Biochemistry, University of Delaware
- 09/2004 – 08/2010 Assistant Professor, Department of Chemistry and Biochemistry, University of Delaware
- 04/2002 – 08/2004 Director's Award Postdoctoral Fellow, Los Alamos National Laboratory.

Education

- Ph.D. in Chemistry, 2002* University of Notre Dame, IN, U.S.A. thesis: "Clusters and Networks of the Early *p*-Block Elements in the Solid State: Mixed Cations as a Way to Structural Novelty" Dissertation Committee: Prof. Slavi C. Sevov (advisor), Prof. Thomas P. Fehlner, Prof. Marya Lieberman (chair), Prof. W. Robert Scheidt
- M.S. in Chemistry, 1995* University of Sofia, Sofia, Bulgaria, thesis: "Paramagnetic Platinum, Palladium and Copper Complexes Formed in the Course of Bilirubin Interaction with $M^{II}Cl_4^{2-}$ ($M = Pt, Pd, Cu$)". Advisor: Prof. Mariana Y. Mitewa

Honors and Awards

- 2009 *Francis Alison Young Scholars Award*; University of Delaware
- 2009 *Exxon Mobil Faculty Fellowship*; American Chemical Society
- 2009 *Margaret C. Etter Early Career Award*; American Crystallographic Association
- 2008-13 *National Science Foundation CAREER Award*, Division of Materials Research
- 2003-04 *Institute for Complex Adaptive Matter (I.C.A.M.) Fellowship*, University of California Office of the President
- 2002-04 *Director's Fellowship*, Los Alamos National Laboratory, Los Alamos, NM
- 2002 *Alumni Association Research Award*, University of Notre Dame, Notre Dame, IN
- 2001-02 *Reilly Fellowship*, University of Notre Dame, Notre Dame, IN

- 2001 *Rohm & Haas Outstanding Graduate Student Award*, University of Notre Dame, IN
2000-01 *Reilly Fellowship*, University of Notre Dame, Notre Dame, IN
1990-95 *State Scholarships for excellent academic grades*, University of Sofia, Bulgaria
1994 *Special Grant for Distinction*, University of Sofia, Sofia, Bulgaria

Service

- Reviewer – Inorganic Chemistry
Reviewer – Chemistry of Materials
Reviewer – Journal of the American Chemical Society
Reviewer – Angewandte Chemie
Reviewer – Journal of Solid State Chemistry
Reviewer – Chemistry – A European Journal
Reviewer – Journal of Alloys and Compounds
Reviewer – Journal of Materials Chemistry
Reviewer – Inorganic Chemistry Frontiers
Reviewer – European Journal of Inorganic Chemistry
Reviewer – Zeitschrift für Anorganische und Allgemeine Chemie
Reviewer – Dalton Transactions
Reviewer – Journal of Electronic Materials
Reviewer – Journal of Crystal Growth & Design
Reviewer – Journal of Physics: Condensed Matter
Reviewer – Chemical Communications
Reviewer – Journal of Physics and Chemistry of Solids
Reviewer – Crystals
Reviewer – Zeitschrift für Kristallographie
Reviewer – Journal of Materials Chemistry
Reviewer – Advanced Functional Materials
Reviewer – Acta Crystallographica
Reviewer – Solid State Sciences
Reviewer – Physical Chemistry and Chemical Physics
Reviewer – Materials
Reviewer – National Science Foundation
Reviewer – Department of Energy, Office of Basic Energy Sciences
Reviewer – Civilian Research and Development Foundation (CRDF) – US Department of State
Reviewer – Ontario Centers for Excellence – Champions of Innovation Program
Reviewer – Research Corporation for Science Advancement
Reviewer – Austrian Science Fund (FWF)
Reviewer – Oxford University Press
Editorial Board Member – Journal of Solid State Chemistry
Editorial Review Panel Member – Acta Crystallographica
Panelist – 3rd NSF Workshop on Future Directions of Solid-State Chemistry (2005)
Panelist – 2015 Department of Energy/Division of Materials Science and Engineering/Office of Science/Basic Energy Sciences Committee of Visitors (COV)
Organizer – 2nd Mid-Atlantic Seaboard Inorganic Symposium (2008)

Organizer – Symposium on “New Materials and Crystallography” at the 2011 annual meeting of the American Crystallographic Association

Nominee – Chair-elect “Materials” Special Interest Group (SIG) in the November 2011 elections of the American Crystallographic Association

Nominee – Chair-elect “Solid-state Chemistry” section, Division of Inorganic Chemistry (DIC) in the November 2013 elections of the American Chemical Society

Program Chair – 2016 Principal’s Investigators Meeting from the Materials Chemistry Program at the Department of Energy/ Basic Energy Sciences

Session Chair – 2016 Gordon Research Conference on Solid State Chemistry, New London, NH

Committee Assignments

Safety Committee (2016 – present)

Graduate Students Curriculum Committee (2004 – present)

Chair Pro-Tem (Promotion and Tenure Committee for Prof. Mary Watson)

Inorganic Division Secretary (2015)

Technical Services Committee (2015)

Department of Chemistry and Biochemistry Administrative Assistant Search Committee (2015)

Department of Chemistry and Biochemistry Inorganic Search Committee (2015)

Teaching Assistantships and Fellowships Committee (2004 – 2015)

Department of Chemistry and Biochemistry Organic Search Committee (2006)

Department of Chemistry and Biochemistry Chair Search Committee (2007)

Department of Chemistry and Biochemistry Crystallographer Search Committee (2007)

Department of Chemistry and Biochemistry Inorganic Search Committee (2009)

College of Arts and Sciences Energy Search Committee (2010)

Dissertation Committee member for Ms. Joilene Trujilo (Prof. Riordan’s group)

Dissertation Committee member for Mr. Michael Mock (Prof. Riordan’s group)

Dissertation Committee member for Ms. Sharon Hatalla (Prof. Riordan’s group)

Dissertation Committee member for Ms. Tina Tao (Prof. Riordan’s group)

Dissertation Committee member for Ms. Maria Inesta (Prof. Lobo’s group – CHEG)

Dissertation Committee member for Ms. Kimberly Chung (Prof. Buttrey’s group – CHEG)

Senior Thesis director for Mr. Jonathan Hullmann (B.S. with honors, 2008)

Dissertation Committee chair for Mr. Paul H. Tobash (Ph.D. defended in January 2009)

Thesis director for Mr. Dereck J. Wilson (M.S., 2010)

Dissertation Committee chair for Mr. Bayrammurad Saparov (Ph.D. defended in January 2011)

Dissertation Committee chair for Ms. Hua He (Ph.D. defended in February 2013)

Dissertation Committee member for Mr. Jia-Ming Lin (Prof. Teplakov’s group)

Senior Thesis reader for Mr. James White (Prof. Hertz’ group – MSEG)

Dissertation Committee member for Mr. Xin Li (Prof. Buttrey’s group – CHEG)

Dissertation Committee member for Ms. Jessica Wallick (Prof. Riordan’s group)

Dissertation Committee member for Mr. Fahri Alkan (Prof. Dybowski’s group)

Dissertation Committee member for Mr. Hsuan Kung (Prof. Teplakov’s group)

Dissertation Committee chair for Mr. Nian-Tzu Suen (Ph.D. defended in December 2014)

Dissertation Committee member for Ms. Rachel Puppilo (Prof. Rosenthal’s group)

Dissertation Committee member for Mr. Daniel Cummins (Prof. Theopold's group)
Dissertation Committee member for Ms. Yu-Ting Hung (Prof. Theopold's group)
Dissertation Committee member for Mr. Xi Lin (Prof. Opila's group – MSEG)
Dissertation Committee member for Mr. Matthew Lewis (Prof. Zide's group – MSEG)
Thesis director for Ms. Yi Wang (M.S., 2015)
Dissertation Committee member for Ms. Stephanie Velardo (Prof. Rosenthal's group)
Dissertation Committee member for Mr. Lan Wang (Prof. Theopold's group)
Dissertation Committee member for Mr. Pengcheng Wu (Prof. Theopold's group)
Dissertation Committee member for Ms. Jie Ren (Prof. Theopold's group)

Classes Taught

CHEM850 – Solid State Chemistry and Crystallography (3 semesters)

CHEM654 – Structure and Bonding (12 semesters)

CHEM457/458 – Senior Inorganic Chemistry – Lectures and Laboratory (7 semesters)

List of Coworkers

Current graduate students

Current undergraduate students

Current post-doctoral fellows

Dr. Alexander Ovchinnikov (started 02/2017)

Dr. Sviatoslav Baranets (started 01/2018)

Dr. Dickson Ojwang (started 01/2018)

Past graduate students

Dr. Paul. H. Tobash (Ph.D. 2009) – technical staff member at Los Alamos National Laboratory – Los Alamos, NM

Cpt. Dereck Wilson (M.S. 2010) – instructor at the US Military Academy West Point

Dr. Bayrammurad Saparov (Ph.D. 2011) – Assistant Professor at the Department of Chemistry, University of Oklahoma – following a post-doctoral fellowship at Oak Ridge National Laboratory, Oak Ridge, TN, and a post-doctoral fellowship at Duke University in the group of Prof. D. Mitzi

Dr. Hua He (Ph.D. 2013) – post-doctoral fellow at Stony Brook University / Brookhaven National Laboratory – Upton, NY in the group of Prof. M. Aronson. Relocated to Texas A&M University in 2015.

Dr. Nian-Tzu Suen (Ph.D. 2014) – Assistant Professor at the College of Chemistry and Chemical Engineering, Yangzhou University – following a post-doctoral fellowship at the National University of Taiwan

Ms. Yi Wang (M.S. 2015)

Ms. Xiaoyun Fu (M.A. 2016)

Past undergraduate students

Ms. Andrea Gallo (B.S. 2005)

Mr. Daniel Lins (B.S. 2005)

Mr. Justin Mertz (B.S. 2006)

Mr. Gary DiFilippo (B.S. 2006)

Mr. Paul King (UDRF supported summer 2006 undergraduate student) – graduated in 2009 with a B.A. degree from the University of Delaware

Mr. Michael Pirnot (UDRF supported summer 2006 undergraduate student) – graduated in 2009 with a B.S. degree from the University of Delaware

Mr. Chad C. Myers (NSF supported summer 2007 undergraduate student) – graduated with a B.S. degree from the Indiana University of Pennsylvania

Mr. John J. Meyers, Jr. (B.S. 2008)

Mr. Jonathan Hullmann (B.S. 2008 with honors)

Mr. Benjamin Hmiel (Plastino Scholar summer 2008 undergraduate student)

Ms. Dung TP Nguen (B.S. 2010)

Ms. Dora Chang (B.S. 2010)

Ms. Maia Saito (NSF supported summer 2010 undergraduate student) – graduated with a B.S. degree from Rutgers, the State University of New Jersey

Mr. Matthew Broda (B.S. 2011)

Ms. Chauntae Tyson (B.S. 2011)

Mr. Greg Darone (B.S. 2014)

Mr. Leonard Voss (B.S. 2015)

Mr. Seth Brynien (B.S. 2016)

Ms. Michaella Raglione (B.S. 2016)

Ms. Chiyu Zhang (B.S. 2016)

Ms. Danielle Marten (B.S. 2017)

Mr. Griffen Desroches (B.S. 2018)

Past post-doctoral fellows and visiting scholars

Dr. Yuki Yamasaki (visiting scholar in the summer of 2005) – now professor at the Hosei University, Tokyo, Japan

Dr. Sheng-Qing Xia (post-doctoral fellow from 09/2005 until 08/2008) – now professor at Shandong University – Jinan, PR China

Dr. Sophia N. Suarez (NSF supported visiting scholar in the summer of 2008) – now professor at Brooklyn College, Brooklyn, New York

Dr. Tae-Soo You (post-doctoral fellow from 03/2009 until 09/2010) – now professor at Chungbuk University, Korea

Dr. Young-kwan Dong (post-doctoral fellow from 01/2010 until 12/2011)
Dr. Sheng-Ping Guo (post-doctoral fellow from 01/2011 until 12/2011)
Dr. Jiliang Zhang (post-doctoral fellow from 02/2012 until 01/2013)
Dr. Marion Schäfer (post-doctoral fellow from 04/2011 until 04/2014)
Dr. Stanislav Stoyko (post-doctoral fellow from 01/2013 until 01/2014)
Dr. Ardak Kussainova (Eurasian University, Kazakhstan) – fellowship from the Civilian Research and Development Foundation (CDRF) – US Department of State
Mr. Stefan Maier (visiting graduate student from CRISMAT, France – from 08/2015 until 11/2015)
Dr. Julien Makongo (post-doctoral fellow from 03/2012 until 03/2016) – now research scientist at Lumenari, Inc.
Dr. Jai Prakash (post-doctoral fellow from 07/2015 until 07/2016) – now professor at I.I.T. Hyderabad, India
Dr. Allison Latshaw (post-doctoral fellow 09/2016 until 11/2016)

Past summer interns

Mr. Savarn Dontamsetti – summer intern from the Charter School of Wilmington
Mr. Kevin Ye – summer intern from the University of Southern California
Mr. Stephen Li – summer intern from the Charter School of Wilmington

Memberships

American Chemical Society
Materials Research Society
SigmaXi – the Scientific Research Society
American Crystallographic Association

Funding

Current

DOE *“Novel Pnictides with d- and f-Metals as Prospective Materials for Thermal Energy Conversion”* (Total award \$420,000. Project duration: 12/15/2015-12/14/2018. Single P.I. Svilen Bobev)

NSF *“Collaborative Research: Synthesis, structural characterization and electrochemical studies of framework substituted silicon, germanium and tin clathrates”* (co-P.I. Svilen Bobev, Total award: \$275,000. Project duration: 09/01/2017-08/31/2020)