

## PROF. SVILEN BOBEV

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### Professional Appointments

- 09/2011 – Present Director of Graduate Studies, Department of Chemistry and Biochemistry, University of Delaware
- 09/2010 – Present 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*"  
Advisor: Prof. Slavi C. Sevov
- 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 – multiple journals and funding agencies

Panelist – 3<sup>rd</sup> NSF Workshop on Future Directions of Solid-State Chemistry

Organizer – 2<sup>nd</sup> Mid-Atlantic Seaboard Inorganic Symposium

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

## **Classes Taught**

CHEM850 – Solid State Chemistry and Crystallography (3 semesters)

CHEM654 – Structure and Bonding (9 semesters)

CHEM457/458 – Senior Inorganic Chemistry – Lectures and Laboratory (5 semesters)

## **List of Coworkers**

### Current graduate students

Mrs. Yi Wang (2<sup>nd</sup> year graduate student)

Mr. James Hoos (2<sup>nd</sup> year graduate student)

### Current undergraduate students

Mr. Leonard Voss (senior junior undergraduate student)

### Current post-doctoral fellows

Dr. Julien Makongo

### Past graduate students

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

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

Dr. Bayrammurad Saparov (Ph.D. 2011) – now post-doctoral fellow at Oak Ridge National Laboratory – Oak Ridge, TN

Dr. Hua He (Ph.D. 2013) – now post-doctoral fellow at Stony Brook University / Brookhaven National Laboratory – Upton, NY

Dr. Nian-Tzu Suen (Ph.D. 2014) – returned to Taiwan

### 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) – now at the University of Kansas – Lawrence, KS

Mr. Jonathan Hullmann (B.S. 2008 with honors) – now at the Jefferson Medical School – Philadelphia, PA

Mr. Benjamin Hmiel (Plastino Scholar summer 2008 undergraduate student) – now at the University of Rochester – Rochester, NY

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. Seth Brynien

Ms. Michaella Raglione (junior undergraduate student)

*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 – professor at Eurasian University, Astana, Kazakhstan

*Past high-school summer interns*

Mr. Savarn Dontamsetti – 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 \$460,000. Project duration: 09/01/2012-12/31/2015. Single P.I. Svilen Bobev)

### Past

UDRF      *“Intermetallic Open-Framework Compounds: Rational Synthesis, Crystal Growth, and Property Optimization”* (Total award \$25,000. Project duration: 06/01/2005-05/31/2006. Single P.I. Svilen Bobev)

UDRF      *“Intermetallic Open-Framework Compounds: Rational Synthesis, Crystal Growth, and Property optimization - Support for Summer Undergraduate Research”* (Total award \$7,000. Project duration: 06/01/2006-08/31/2006. Single P.I. Svilen Bobev)

PRF      *“Synthesis, Structural Characterization and Property Optimization of Novel Antimonides and Bismuthides – Promising Materials for Thermal-to-Electric Energy Conversion”* (Total award \$50,000. Project duration: 01/01/2008-12/31/2010. Single P.I. Svilen Bobev)

UDRF      *“Strategic Initiative Grant – Synthesis and Structural Characterization of New Materials for Applications as Negative Electrodes in Rechargeable Lithium Batteries”* (Total award \$45,000. Project duration: 01/01/2009-12/31/2010. P.I. Svilen Bobev, co-P.I. Tatyana Polenova)

DOE      *“Synthesis and Structural Characterization of Novel Intermetallic Clathrates – Prospective Materials for Thermoelectric Applications”* (Total award \$449,920. Project duration: 08/15/2009-08/14/2012. Single P.I. Svilen Bobev)

NSF      *“Synthesis and Structural Characterization of Lanthanide-based Silicides and Germanides”* (Total award \$530,000. Project duration: 02/15/2008-02/14/2013. Single P.I. Svilen Bobev). NCE to 01/2014

### Pending

NSF      *“Synthesis and Structural Characterization of Lanthanide-based Silicides and Germanides”* (Single P.I. Svilen Bobev)