

## RADOSLAV B. BOGOSLOVOV

---

UNLV – Department of Physics  
4505, Maryland Pkwy  
Las Vegas, NV 89154-4002  
Tel: (702) 895-1732  
Fax: (702) 895-0804  
E-mail: [radoslav@physics.unlv.edu](mailto:radoslav@physics.unlv.edu)

Home:  
2301 Redwood St.; Apt. 3205  
Las Vegas, NV 89146-0837  
Tel/Fax: (702) 262-6891  
<http://www.physics.unlv.edu/~radoslav>

### EDUCATION

#### University of Nevada, Las Vegas

1999 - 2005

Department of Physics

Degree: Ph. D. in Physics (December 2005)

Degree: M. Sc. in Physics (August 2003)

Cumulative GPA: 3.81

Awards and Scholarships:

The President's Graduate Fellowship (2003-2004)

Graduate Research/Teaching Assistantship (1999-2003 and 2004-2005)

Graduate "GREAT Summer Assistantship" (2000, 2001 and 2002)

#### Sofia University "St. Kliment Ohridski" (Bulgaria)

1992 - 1996

Sofia, Department of Physics

Degree: M. Sc. in Engineering Physics

Specialization: Quantum Electronics and Laser Technique

Cumulative GPA: 5.0 on a 6-point scale

### PUBLICATIONS

- R. Bogoslovov; *Effects of temperature and dissolved LiClO<sub>4</sub> on the viscoelastic and dynamic properties of poly(ethylene oxide), (PEO) melts*, Dissertation, Graduate College, University of Nevada, Las Vegas, December 2005
- R. B. Bogoslovov, D. P. Shelton, J. C. Selser, G. Piet, and S. Peng; *Versatile fiber-coupled system for simultaneous photon correlation spectroscopy and Fabry-Perot interferometry*, Review of Scientific Instruments, Volume 75, Issue 10, pp. 3216-3223, October 2004
- S. Peng, J. C. Selser, R. Bogoslovov, G. Piet; *An investigation of a sol-gel/melt transition: The poly(ethylene oxide)/methanol/LiClO<sub>4</sub> system*, The Journal of Chemical Physics, Volume 120, Issue 18, pp. 8841-8852, May 2004
- R. Bogoslovov; *A Study of the Effects of LiClO<sub>4</sub> on Poly(ethylene oxide), (PEO) Melt Dynamic Behavior Using Fabry-Perot Interferometry*, Thesis, Graduate College, University of Nevada, Las Vegas, August 2003
- Walter R.; Selser J. C.; Smith M.; Bogoslovov R.; Piet G.; *Network viscoelastic behavior in poly(ethylene oxide) melts: effects of temperature and dissolved LiClO<sub>4</sub> on the network structure and dynamic behavior*, Journal of Chemical Physics, Volume 117, Issue 1, pp. 417-440, July 2002
- Walter R.; Walkenhorst R.; Smith M.; Selser J. C.; Piet G.; Bogoslovov R.; *The role of polymer melt viscoelastic network behavior in lithium ion transport for PEO melt/LiClO<sub>4</sub> SPEs: the "wet gel" model*, Journal of Power Sources, Volume 89, Issue 2, pp. 168-175, August 2000

## CONFERENCES

- R. Bogoslovov, J. C. Selser, S. Peng, G. Piet; *Effects of temperature and dissolved LiClO<sub>4</sub> on the viscoelastic and dynamic properties of poly(ethylene oxide), (PEO) melts*, poster presented at the APS March Meeting, March 20–25, 2005, Los Angeles, CA
- S. Peng, J. C. Selser, R. Bogoslovov, Greg Piet; *A Light Scattering Investigation of a Sol/melt–gel Transition: the Poly(ethylene oxide) (PEO)/methanol/LiClO<sub>4</sub> System*, poster presented at the APS March Meeting, March 20–25, 2005, Los Angeles, CA
- J. C. Selser, S. Peng, R. Bogoslovov, G. Piet; *Lithium/polymer battery electrolytes: the poly(ethylene oxide)/lithium perchlorate system*, poster presented at the ACS National Meeting, March 13–17, 2005, San Diego, CA
- R. Bogoslovov, D. Shelton, J. C. Selser, S. Peng, G. Piet; *Versatile fiber-coupled system design for simultaneous Photon Correlation Spectroscopy (PCS) and Fabry-Perot Interferometry*, poster presented at the APS March Meeting, March 3–7, 2003, Austin, TX
- S. Peng, J. C. Selser, R. Bogoslovov, G. Piet; *Light Scattering Investigation of a Sol/gel-melt Transition: the Poly(ethylene oxide) (PEO)/methanol/LiClO<sub>4</sub> System*, poster presented at the APS March Meeting, March 3–7, 2003, Austin, TX
- Walter R.; Smith M.; Walkenhorst R.; Selser J. C.; Bogoslovov R.; Piet G. *Network viscoelastic behavior in poly(ethylene oxide) melts: effects of dissolved lithium salt on the network structure and dynamics*, poster presented at the APS March Meeting, March 12–16, 2001, Seattle, WA

## CURRENT RESEARCH PROJECTS

- Brillouin light scattering in PEO melts and PEO/LiClO<sub>4</sub> solutions
- Dynamic and static light scattering in PEO melts and PEO melt/LiClO<sub>4</sub> compositions
- Rheology, viscometry and thermal analysis of PEO/LiClO<sub>4</sub> electrolytes

## COMPUTER SKILLS

- Operating systems: *DOS, Windows 3.x, 9x/ME, NT/2000/XP*
- Applications - *Microsoft Office*, Graphic software (*Corel Draw, Adobe PhotoShop, etc.*)
- Mathematical and technical software (*Matlab, Mathematica, Origin, Mathcad, SigmaPlot, etc.*)
- Programming languages (*C++, Fortran*)

## LANGUAGE SKILLS

Proficiency in English and Russian. Native in Bulgarian.

## PROFESSIONAL MEMBERSHIPS

- American Physical Society (APS) (since 1999)

## WORK EXPERIENCE

### UNLV – Physics Department

Las Vegas, Nevada

Research/Teaching Assistant

- Research conducted at the Laboratory of Macromolecular Systems, including Brillouin light scattering (F-P interferometry), photon correlation spectroscopy (PCS), rheology and DSC/TG studies of poly(ethylene oxide), (PEO) melts and PEO/LiClO<sub>4</sub> electrolytes.
- Teaching Introductory Physics Lab

*Spring 1999 - present*