Updated August 2011

Carmen Scholz, Ph.D.

Member Executive Editorial Board *Polymer International*

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Education:

July, 1987	**Diploma (MS) in Polymer Chemistry** University of Technology, Dresden, Germany Thesis Subject: "Dyeing Kinetics of High Wet Modulus Fibers"
November, 1991	**Dr. rer.nat. (Ph.D.) in Chemistry** University of Technology, Dresden, Germany Thesis Subject: "Structure and Dyeing Behavior of High Wet Modulus Fibers"

Research and Professional Experience

2009-	Professor, Department of Chemistry, University of Alabama in Huntsville, AL
2004-2009	Associate Professor, Department of Chemistry, University of Alabama in Huntsville, AL
1998-2004	Assistant Professor, Department of Chemistry, University of Alabama in Huntsville, AL
2004/2005	Assistant Department Chair
2001-	Faculty member of the Biotechnology and Engineering Program, University of Alabama in Huntsville, AL
2000-	Adjunct Professor, Department of Chemical Engineering, University of Alabama in Huntsville, AL
1999-	Faculty member of the materials Science Program, University of Alabama in Huntsville, AL
1996-1998	Research Associate, Department of Chemistry, University of Massachusetts, Lowell, MA
1994-1996	Research Scientist, International Center for Biomaterials Science at Science University, Tokyo, Noda-Campus, Japan
1992-1994	Postdoctoral Research Associate, Department of Polymer Science and Engineering, University of Massachusetts Amherst, MA
1991-1992	Senior Research Assistant, University of Technology, Dresden, Germany
1987-1991	Research Assistant, University of Technology, Dresden, Germany

Other Professional Experience

2010	Organizing Committee: Internat. Conf. on Biomaterials 2011, Tsukuba, Japan
2010	Co-Organized ACS symposium: 9th Biorelated Polymers Symposium
2009	UAHuntsville Realignment Committee
2008	Organized Biomaterials Session at 1st Mexican-American Polymer Symposium
2008	Organized ACS symposium: 8th Biorelated Polymers Symposium
2007-	Advisory Editorial Board *Journal of Bioactive and Compatible Polymers*
2007	Co-founded Alamanda Polymers, Inc.
2007-	Faculty Senate: Committee on Faculty and Student Development
2006	Sabbatical: University of Tokyo, Tokyo, Japan, (1 semester)
2005-	Associate Editor for North America for *Polymer International*
2005	Organized ACS symposium: Degradable Polymers and Materials

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2002/2003	Visiting Lecturer, Martin-Luther –University, Halle-Wittenberg, Germany
2002	Visiting Researcher, Tufts University, Medford, MA
2002-2005	Chair: University Laboratory Safety Committee
2002-	Member Boston Retinal Implant Project
2000/2001	Visiting Researcher, University of New South Wales, Sydney Australia
1998-2011	Executive Officer, BEPS (Bio/Environmental Polymer Society)

Editorial Boards:

Polymer International:	Executive Editorial Board
Journal of Polymers and the Environment	Editorial Board
Journal of Bioactive and Compatible Polymers	Associate Editorial Board
The Open Biotechnology Journal	Editorial Advisory Board

Students:

Graduated:	Dr. Jeff Sparks, Egen, Huntsville, AL	Ph.D. advisor
	Dr. Luke Theogarajan, Asst. Prof. UCSB	Ph.D. co-advisor
	Dr. Madan Gopal	Ph.D. co-advisor
Advised:	Dr. Willy Vayaboury, Alamanda Polymers	post-doc advisor
	Dr. Rodolphe Obeid, University of Montreal	post-doc advisor

Total number of students advised: Ph.D: 3, MS: 4, numerous undergraduate students

Currently: Five graduate students, Three undergraduate students

Teaching:

* Polymer Synthesis and Characterization (CH 440/540, MTS 649)
* Polymer Physics (CH 645, MTS 747)
* Polymeric Drug Delivery (CH 735, CHE 559)
* ST: Polymer Chemistry: Polymeric Encapsulants, Polymer Characterization, Physical Polymer Characterization, Microbial Polymer Synthesis, Synthetic Biopolymers
* Introduction to Chemical Research (CH 493)
* Chemistry Seminar (CH 780)
* Advanced Organic Chemistry Lab (CH 337)
* Organic Chemistry Lab (CH 335, CH 336)
* Elementary Organic Chemistry (CH 113)
* Freshmen Chemistry (CH 121)

Services to the Profession:

* Consultant to Biodegradable Polymer Institute, New York, NY
* ACS (American Chemical Society) Councilor North Alabama Section

Publications:

* 49 publications, (35 peer-reviewed, 14 conference proceedings)
* edited three books within the *ACS Symposium Series*
* edited a special issue on Polymers in Biomedical application for *Progress in Polymer Science* (impact factor: 16)
* Patents: 1 issued (USP 5,925,720), 2 pending

Research Projects: Current:

* Advanced Engineering Development of a Chronic Retinal Implant
* The Effect of Chemical Diversity of Crude Oil on biochemical Transformation
*I accepted responsibility for the projects: “Biological Conversion of Biodiesel-

Derived Crude Glycerol to Produce Value-Added Industrial Products" and
"Investigating and Improving the Production of Butanol by *C. pasteurianum* for the Value-Added Conversion of Biodiesel-Derived Crude Glycerol",
Collaborative research with University of Rhode Island
(PI on the project left UAH)

Research Projects: Finished (since 2003):

* Engineering Development of a Chronic Retinal Implant
* Surface modification of Polyimide: Development of Encapsulation for Implantable Electronics, funded by Veterans Administration
* Surface modification of Polyimide: Hermetic Encapsulation
* Bacterial Polyester Polycations by Polymer-analogous Conversions

Awards and honors:

2000	Student-Government Association Outstanding Faculty Award	
1994	Fellowship of the Japanese Society for the Promotion of Research on Cardiovascular Diseases	
1992	Feodor-Lynen Fellowship of the Alexander-von-Humboldt Foundation, Germany	
1991	graduated Dr. rer.nat. (Ph.D.)	magna cum laude
1987	graduated Dipl.-chem. (M.S.)	cum laude

Languages:

Fluent in English and German
Limited knowledge of Russian and Japanese