

CURRICULUM VITAE
EVA MARIE HARTH
Assistant Professor of Chemistry and Pharmacology
Vanderbilt University
7619 Stevenson Center
eva.harth@vanderbilt.edu
ph: 615-343-3405
fx: 615-343-1234

PROFESSIONAL PREPARATION

UNDERGRADUATE, GRADUATE, AND POSTDOCTORAL

Friederich-Wilhelms-University Bonn, Germany

Degree: B.D. in Organic Chemistry, Inorganic Chemistry, Physics, 1990

University of Zurich, Switzerland

Degree: B.S., M.S., Chemistry/Biochemistry, 1994

Thesis title: *Synthesis of unprotected α -manno-isopropylidene-fullerene*,

Advisor: Prof. A. Vasella, ETH Zurich

Max-Planck Institute for Polymer Research, University of Mainz, Germany

Degree: PhD. in Organic Chemistry, 1998

Thesis: *Synthesis and Properties of Fullerene Adducts and Polymers*

Advisor: Prof. K. Müllen, MPI Mainz

CPIMA Center for Polymeric Interfaces and Macromolecular Assemblies

Stanford University, IBM Almaden Research Center, San Jose, CA, USA

Postdoctoral Fellow, 1998-2001

Area: Living free Radical Polymerization Techniques, Dendrimers

Advisor: Prof. C. J. Hawker, IBM Almaden Research Center, now at UC Santa Barbara,

Director of MRL

XenoPort, Inc., Santa Clara, CA

Staff Scientist, 2001-2004

Area: Macromolecular Drug Delivery, Dendrimers

Scientific Advisor: Prof. J.M.J. Fréchet, UC Berkeley

RESEARCH FELLOWSHIPS AND AWARDS

NSF-CAREER Award 2007 (OMC)

Europa-Stipendium, Max-Planck Gesellschaft, Germany, 1994-1996

PROFESSIONAL SERVICE:

Vanderbilt Center for Science Outreach, GK12-program

Manuscript referee for *Acta Biomaterialia*, *Macromolecules*, *Langmuir*, *Journal of the American Chemical Society JACS*, *Biopolymers*, *Journal of Polymer Science, Part A: Polymer Chemistry*, *Bioconjugate Chemistry*, *Small*, *Department of Energy (DoE)*, *National Science Foundation (NSF)*, *ACS-PRF*

Co-Organizer ACS meeting 2008 in New Orleans, LA: Session: Drug Delivery Systems

Gordon Research Conference, Polymers East, 2003, Discussion Leader

Gordon Research Conference, Polymers East, 2007, Discussion Leader

APPOINTMENTS : Research

Assistant Professor of Pharmacology, Department of Pharmacology, VU School of Medicine, 3/2006-present

Assistant Professor of Chemistry, Department of Chemistry, VU College of A&S, 8/2004- present

Staff Scientist XenoPort, Inc., Santa Clara, CA, 2001-2004

Postdoctoral Fellow, CPIMA, Stanford University, IBM Almaden Research Center, 1998-2001

Research Assistant, University of Mainz, 1998

Teaching Experience

Instructor: Course 218 B1 (honors): Advanced Placement Organic (undergraduate) Spring 2006/ 2007/2008

Instructor: Course 235: Polymer Chemistry and Surface Chemistry, (graduate) Fall 2005

Instructor: Short Course in Polymer Science, Fisk University/IGERT, Summer 2005/ 2006

Instructor: Course 350 Materials Science A: Soft Materials (graduate) Fall 2004/ 2006

Part-time Instructor for Organic Chemistry, San Francisco State University, 2002

Assistant, University of Mainz, Laboratory Introductory Course, 1996

Presentations:

2008

235th ACS National Meeting New Orleans, invited talk, "Multifunctional polyester nanoparticles with control over size and functionalities" Division of Polymer Chemistry, Session: Stimuli Responsive Polymers, April 18, 2008

235th ACS National Meeting New Orleans, Co-Organizer, Organizer (Scott Grayson, Tulane): Division of Polymer Chemistry, Session: Drug Delivery (2 Days and 4 sessions total with 32 speakers, April 17 and 18, 2008

Zing Conference: Polymers, plenary speaker, "Synthesis of Viral Mimics: Shaping of the Macromolecular Building Blocks and Investigation of their Transport across Biological Barriers" Cancun, Mexico, March 21, 2008

2007

Delta State University, Cleveland, MS, "Multifunctional Nanoparticles: Targeted Delivery and Transport across biological Barriers" November 13, 2007

Trinity University, San Antonio, TX, "Multifunctional Nanoparticles: Targeted Delivery and Transport across biological Barriers" November 8, 2007

Vanderbilt University, VICB (Vanderbilt Institute of Chemical Biology) Seminar: "Targeted Delivery across biological Barriers", September 19, 2007

234th ACS National Meeting, Boston, MA, August 21, 2007
Herman Mark Scholar Symposium in Honor of Craig J. Hawker, invited,
Macromolecular Vectors and Modular Drug Delivery Systems"

233rd ACS National Meeting, Chicago, Illinois, Session: Polymeric Nanomaterials, invited, "Novel Modular Transporter" March 26, 2007

Alabama A&M University, Huntsville, AL, "Multifunctional Nanoparticles" February 4, 2007

2006

9th Annual UNESCO/ IUPAC Conference on Macromolecules "Polymers for Advanced Applications", November 20-23, 2006, Stellenbosch, South Africa, invited lecture, "Effective cancer therapies through functional, bio-inspired nanoparticles"

Georgia Tech, Atlanta, (SAACS), November 13, 2006 "Multifunctional Nanosized Objects tailored for Drug Delivery Approaches in Cancer, Imaging and Device Technology"

Renal Research Conference, Vanderbilt Medical School, November 10, 2006 "Controlled Drug Delivery to Sublocations in Cells and the Design of Organic Quantum Dots"

2006 NSF Workshop on Physical Organic Chemistry, Organizers: S.Davis, V.Rotello, M. Garcia-Garibay, October 27-31, 2006, UCLA Conference Center Lake Arrowhead, CA, invited

University of California, Los Angeles, UCLA, Department of Chemistry and Biochemistry, October 26, 2006

19th Rocky Mountain Regional Meeting of The American Chemical Society, University of Arizona, October 17, 2006, Session: A little Chemistry – Polymers and Nanostructured Materials II
"Design and utilization of nanoscale objects for applications in medicine and materials science"

Michigan State University, East Lansing MI, Department of Chemical Engineering and Materials Science, SATE Seminar Series (Science at the Edge), September 29
"Utilization of macromolecular architectures: Synthesis of highly targeted intracellular delivery systems and the design of organic quantum dots"

VICB- Vanderbilt Institute of Chemical Biology- Retreat, Vanderbilt University, lecture August 8, 2006

VISB- Vanderbilt Structural Biology Seminar, lecture August 1, 2006

231st ACS National Meeting, Atlanta, Georgia. March 2006. "Approaches in the development of 3-D nanoscopic, multifunctional vectors", Session Chair: Polymers, Nanoparticles and Composite Materials in Nanoscience.

Australasian Polymer Symposium, and Australasian Society for Biomaterials 16th Annual Conference, Rotorua Convention Center, Rotorua, New Zealand, Keynote Speaker in the Biomaterials Section, February 2006, Session: Polymeric Architectures: "Synthesis and Design of 3-D nanoobjects for applications in medicine and materials sciences"

Tennessee Tech University, Cookeville, Colloquium, January 2006, "Introduction of multifunctionality into Macromolecules "

2005

Southern Methodist University SMU, Dallas, TX, Colloquium, November 2005, 3-D-nanosopic objects for Applications in Medicine and Materials Science"

Keenesaw State University, Colloquium, GA, October 2005, "Utilization of tailored Macromolecules "

Vanderbilt University, Chemical Engineering Colloquium, September 2005, "3-D-nanosopic Objects for Applications in Medicine and Materials Science"

George Mason University, Colloquium, Washington, D.C, April 2005, "From Macromolecules to Nanoparticles"

University of Memphis, Tennessee, March 2005, " From Macromolecules to Nanoparticles"

2004

Vanderbilt University, NanoDay, October 2004,"From Macromolecules to Nanoparticles"

2003

University of Florida, Gainesville, Seminar, June 2003, "Fullerenes, Dendrimers and Nanoparticles form the bottom up: Approaches towards Nanotechnology"

2001

ACS National Meeting, San Diego, "New Routes to Functionalized Polymers: Elucidation of a novel Strategy for Chain-end Functionalization and the Development of improved third generation Nitroxides", Spring 2001

2000

ACS National Meeting, San Francisco, "Practical Approach to the living Polymerization of commercially important Monomers such as 1,3-dienes and Acrylamides", Spring 2000