

TIMOTHY JOHN DEMING

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Research Interests Polymer and materials synthesis, organometallic chemistry, self-assembly, biological activity of polypeptides, polymeric therapeutics and delivery agents. Emphasis on development of new synthetic methodologies as well as the use of biological precedents and strategies for the design of new materials.

Positions held

7/06 – 6/11 Chairman, Department of Bioengineering, University of California, Los Angeles
7/06 – 12/08 Chairman, Biomedical Engineering Interdepartmental Graduate Program,
University of California, Los Angeles
7/05 – present Professor, Department of Chemistry and Biochemistry, University of California,
Los Angeles
7/04 – present Professor, Department of Bioengineering, University of California, Los Angeles
7/03 – 6/04 Professor, Materials and Chemistry Departments, Interdepartmental Program of
Biomolecular Science and Engineering, UCSB
7/99 – 6/03 Associate Professor, Materials and Chemistry Departments, Interdepartmental
Program of Biomolecular Science and Engineering, UCSB
1/96 – 6/99 Assistant Professor Materials and Chemistry Departments, UCSB
3/95 – 1/96 Assistant Professor, Materials Department, UCSB
11/93-3/95 Postdoctoral research associate with Professor David A. Tirrell, Polymer Science
and Engineering Department, University of Massachusetts, Amherst, MA.

Education

8/89 - 10/93 Ph.D. in Chemistry, University of California, Berkeley, CA
9/85 - 6/89 BS in Chemistry (magna cum laude), University of California, Irvine, CA

Honors and Fellowships

Fellow of the American Institute for Medical and Biological Engineering (AIMBE) **2010**. Herbert Newby McCoy Award (UCLA Dept. of Chem. & Biochem.) **2008**. IUPAC Macromolecular Division, Samsung-IUPAC Young Scientist Award (World Polymer Congress **2004**). Materials Research Society Young Investigator Award **2003**. Rothschild and Mayent Foundation Fellow, Institut Curie, Paris **2002**. Camille Dreyfus Teacher-Scholar Award **2000**. 3M Non-Tenured Faculty Award **1999**. Beckman Young Investigator Award **1998**. Alfred P. Sloan Research Fellow **1998**. National Science Foundation CAREER Award **1997**. Office of Naval Research Young Investigator **1996**. University of California, Regents Junior Faculty Fellow **1996**. Unilever Award for Outstanding Graduate Research in Polymer Chemistry **1994**.

Research Highlights

“Emulsions Double Up” *Chem. Engr. News*, **September 8, 2008**, p.35.
“The WOW factor” Editor’s Summary, *Nature* **2008**, 455, p.ix.
“Arginine-Containing Vesicles Deliver” *Chem. Engr. News*, **December 11, 2006**, p.31.
“Tough and Smart” Jones, R. A. L. “News and Views”, *Nature Mat.* **2004**, 3, 209-210.
“Crafty Carriers” *Science News* **2004**, 165(17), p. 261.
“Swell gels” Kopecek, J. “News and Views”, *Nature* **2002**, 417, 388-391.
“Diblock copolypeptide amphiphiles form rapidly recovering hydrogels” *MRS Bulletin*, **2002**, 27, p.584

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- “Rapid-response hydrogels” *Physics Today*, **August 2002**, 55, p. 9.
“Block polypeptide hydrogels” *Chemical and Engineering News*, **May 27, 2002**, 80, p.14.
“Beyond Jell-O: New ideas gel in the lab” *Science News* **2002**, 161(21), p. 323.
“Behind the stickiness of mussel glue” *Chem. Engr. News*, **June 14, 1999**, p.30.
“Amino acid puts the muscle in mussel glue” *Science News*, **1999**, 156, p. 5.
“Simple polypeptides stick like mussel glue” *Chem. Engr. News*, **August 17, 1998**, p.37.
“For the living there is hope” Tirrell, D. A. “News and Views”, *Nature*, **1997**, 390, 336-339.

Professional Activities and Service

2011, Head of Steering Committee, 6th DFG-NSF Research Conference on Bioinspired Design and Engineering of Novel Functional Materials, New York; **2010**, Faculty Advisor, Los Angeles Student Chapter of the International Society of Pharmaceutical Engineers; **2010-present**; Editorial Advisory Board, *Biomacromolecules*. **2009**, Program Chair, First International Conference on multifunctional, hybrid, and nanomaterials, Tours, France; **2007**; Organizer, Symposium on Polypeptide and Protein Materials, PMSE Division, ACS National Meeting, Boston. **2006**; Technical Program Chair, Biomedical Engineering Society (BMES) National Meeting, Los Angeles. **2006-present**; member, Johnsons Comprehensive Cancer Center. **2005-2009**; Editorial Advisory Board, *Soft Matter*. **2004-present**; member, Materials Creating Training Program, NSF IGERT. **2002-present**; Editorial Advisory Board, *Macromolecular Bioscience*. **2003-2006**; Editorial Advisory Board, *Macromolecules*. **2000-2005**; Editorial Advisory Board, *Biopolymers*. **2003**; Organizer, Symposium on Biological and Bio-Inspired Materials Assembly, MRS Fall Meeting, Boston. **2003**; Polymer Science demonstrations for Washington School students (5th and 6th grade, SB, CA). **2001**; Presentation and Polymer Science demonstrations for Redwood Middle School students (7th and 8th grade, Thousand Oaks, CA). **2000**; Organizer, ACS Award in Polymer Chemistry Symposium, ACS National Meeting, San Diego. **2000**; Speaker and City College Interns in Materials Research (CCIMR) representative at SB City College.

Selected Invited Lectures

2011, Chinese-American Frontiers of Engineering, National Academy of Engineering, San Diego, CA. **2010**, **Spotlight Speaker**, National Academy of Engineering Grand Challenge Summit, Raleigh, NC; **2010**, Molecular Science Forum Lecture Professorship, Institute of Chemistry, Chinese Academy of Science, Beijing, China; **2008**, **Plenary Lecture** at 2nd CNSI/G-COE Joint Symposium, Fukuoka, Japan. **2008**, **Keynote Speaker** at 5th Marie Curie INVENTS Conference on Biomaterials, Madeira, Portugal. **2007**, Nuremburg Congress on Coatings, Nuremburg, Germany. **2007**, High Polymer Conference, Pott Shrigley, England. **2007**, Program of Polymer Science and Technology (PPST) lecture, MIT. **2006**, Center for Nanophase Materials Sciences (CNMS) lecture, Oak Ridge National Lab, Tennessee. **2006**, Poly. Sci. and Engr. Dept. University of Massachusetts, Amherst. **2006**, Frontiers of Engineering, National Academy of Engineering, Dearborn, MI. **2004**, World Polymer Congress, MACRO 2004, Paris, France. **2004**, **Keynote Speaker** at 43rd Microsymposium on Polymer Biomaterials, Prague, Czech Republic. **2003**, MRS Outstanding Young Investigator Award Lecture. **2002**, Rothschild Fellow Lecture, Institut Curie, Paris. **2001**, **Plenary Lecture**, European Polymer Federation 2001 Meeting, Eindhoven, Netherlands. **2000**, ACS Industrial Achievement Award Symposium, National ACS Meeting, Washington DC.

Collaborators and Co-authors in the last 3 years:

D. Kamei (UCLA), P. Keller (Paris), H.-A. Klok (Lausanne), S. Leccomandoux (Bordeaux), T. Mason (UCLA), D. Pochan (Delaware), R. Prud'homme (Princeton), R. Langer (MIT), H. Schlaad (Göln), M. Sofroniew (UCLA), S. T. Carmichael (UCLA), L. Havton (UCLA), C. Sykes (Paris), L. Wu (UCLA).

Filed Patent Applications: 24
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Publications (over 100) available upon