

Materials Science and Engineering

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Education:

B.S. Chemistry, University of Illinois, 1984

M.S. Metallurgical Engineering (Polymers), University of Illinois, 1986

Ph.D., Applied Science (Materials Science), Southern Methodist University, 1990

Research Interests:

Our laboratory is focused on several themes:

- 1.) photosensitive acrylates commonly used as photoresists, dental composite restoratives, cell immobilization substrates, and a number of other adhesive and coatings applications.
- 2.) dispersions has focused on how particle dynamics in solution, stratification phenomena, adsorption phenomena on particles in dispersions, and particle-particle interactions are affected when ensembles of particles are dispersed in solution.
- 3.) harnessing stem cells separated from voluntary tooth extractions for subsequent use as a bone forming tissue engineering strategy for multiple myeloma, (MM).

Currently Teaching:

Prior Experience:

1993-2007: Professor, Dept of Materials Science and Engineering, Virginia Tech

2004-present: Adjunct Professor, Dept of Chemical Engineering, Virginia Tech

2001-present: Core Faculty and Professor, Virginia Tech/Wake Forest School for Biomedical Engineering

Other adjunct appointments:

Wake Forest University School of Medicine

Georgetown School of Medicine

1991-1993: NIH Postdoctoral Training Fellow, Georgia Institute of Technology, Department of Materials Engineering, Atlanta, GA

1996-1990: Process Engineer, Texas Instruments: Defense Systems and Electronics Group, Dallas, TX

Awards and Professional Service:

Nominee, WL Wine Award for Teaching Excellence, 2007

Dean's list for Teaching Excellence based on Student perceptions at Virginia Tech: 2004, 2002, 1998, 1994

Visiting Professorship, Universite Claude Bernard, LYON France, 1996, 1999

NIH Post-docotoral Fellowship, 1991-1993

Editorial Boards

Journal of Adhesion Science and Technology, 2002-present

Journal of Adhesion, 2003-present