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Professional Preparation

Pennsylvania State University, Chemical Engineering, B.S. (with honors/high distinction)	1983
University of California at Berkeley, Chemical Engineering, Ph.D.	1988
University of Cambridge, Materials Science & Metallurgy, Research Associate	1988-89
Institute for Energy Technology, Soft Condensed-Matter Physics, Research Fellow	1989

Professional Experience

2017	Erudite Professor, Mahatma Gandhi University (India)
2016 – present	Distinguished Professor, NC State University
2015 – present	Alumni Distinguished Graduate Professor, NC State University
2012	Lars Onsager Professor, Norwegian University of Sci. & Technol. (Norway)
2002 – present	Professor of Chemical & Biomol. Eng. & Mater. Sci. & Eng., NC State Univ.
2001 – present	Alumni Distinguished Undergraduate Professor, NC State University
1997 – 2002	Associate Professor of Chem. Eng. and Mater. Sci. & Eng., NC State Univ.
1992 – 1997	Assistant Professor of Materials Science & Engineering, NC State University
1989 – 1992	Staff Scientist, Corporate Research Division, Procter & Gamble, Cincinnati
1989	Research Fellow, Institutt for Energiteknikk, Kjeller (Norway)
1988 – 1989	Research Associate, University of Cambridge, Cambridge (United Kingdom)
1983 – 1988	Graduate Student Research Assistant, Lawrence Berkeley National Lab

Awards & Honors of Distinction

Outstanding Global Engagement Award	NC State University	2018
International Award	Society of Plastics Engineers	2015
Elected Member	Norwegian Academy of Technol. Sci.	2015
Fulbright Senior Specialist Award	IIE CIES ¹	2014
Lars Onsager Professorship and Medal	Norwegian Univ. Sci. and Technol.	2012
Alumni Fellow Award	Pennsylvania State University	2012
Alcoa Distinguished Engineering Research Award	NC State College of Engineering	2012
Colwyn Medal	Inst. of Materials, Minerals & Mining	2011
Chemistry of Thermoplastic Elastomers Award	American Chemical Society (Rubber)	2008
Board of Governors' Award for Excellence in Teaching	University of North Carolina	2008
Ernst Ruska Prize	German Electron Microscopy Society	2007
Cooperative Research Award in Polymer Science	American Chemical Society (PMSE)	2006
Outstanding Research Award	NC State Alumni Association	2005
Alumni Distinguished Undergraduate Professor Award	NC State Alumni Association	2001-
Outstanding Teaching Award	NC State Alumni Association	2000
Outstanding Teaching Award; induction into AOT ²	NC State College of Engineering	2000
Alcoa Foundation Research Achievement Award	NC State College of Engineering	1996
Outstanding Research Achievement Award	<i>Sigma Xi</i> Research Honor Society	1995
Procter & Gamble Team Achievement Award	Corporate Research Division	1992

Other Awards & Honors (past 10 years)

North Carolina State University

Global Award Finalist	Institution of Chemical Engineers	2018
Outstanding Alumnus Award	Penn State Univ. Schuylkill Campus	2017
1 st place (microscopy) and 2 nd place (illustration)	NC State Research Image Contest	2017
Visiting Professorship	Humboldt University zu Berlin	2017

¹ Institute of International Education Council for International Exchange of Scholars

² Academy of Outstanding Teachers

Visiting Professorship	Adam Mickiewicz University	2017,18
Elected Fellow	NANOSMAT Society	2017
Goodnight Fellow	NC State Goodnight Scholars Program	2016
Alexander von Humboldt Research Fellowship	Technical University of Munich	2016
Alumni Distinguished Graduate Professor Award	NC State Alumni Association	2015
Elected Fellow	Royal Society of Chemistry	2015
Invited Co-editor	<i>Thermoplastic Elastomers</i> , 4 th Ed.	2015
Invited Short Course Instructor	Tsinghua University	2014
Caldwell Faculty Fellow	NC State Alumni Association	2013
Innovator of the Year Award Finalist ³	Institution of Chemical Engineers	2013,12
Rubber Foundation Lecture	The Polymer Society (U.K.)	2012
External Advisory Board	Penn State Schuylkill Campus	2012-
Elected Fellow	Inst. of Materials, Minerals & Mining	2011
Elected Honorary Fellow	Australian Inst. of High Energ. Mater.	2010
Innovative Product of the Year Award Finalist	Institution of Chemical Engineers	2010
Outstanding Mid-Career Teaching Award	ASEE ⁴ (Southeast Region)	2009
Tech Brief Award	National Aeronautics & Space Admin.	2008
Elected Fellow	American Physical Society	2008
Tewkesbury Fellowship	University of Melbourne (Australia)	2007
Outstanding Scholar Alumnus Award	Penn State Univ. Schreyer College	2007
Invited Delegate, <i>Prospects for European Integration</i>	Federal Republic of Germany	2006
Guest Co-Editor	<i>Materials Research Society Bulletin</i>	2006
Recognition Award	Int. Network for Eng. Ed. and Res.	2006
Alexander von Humboldt Research Fellowship	Technical University of Berlin	2004
George H. Blessis Outstanding Advisor Award	NC State College of Engineering	2003
1 st Place, Energy Challenge National Competition	U.S. Department of Energy	2003
Science Advisory Board	SINTEF Materials Technology	2004-14
Multidisciplinary Senior Design Team Advisor Award	NC State Materials Science & Eng.	2002,01
Alexander von Humboldt Research Fellowship	University of Freiburg	2000,98
Visiting Professorship	University of the Philippines	1999
Senior Design Team Advisor Award	NC State Materials Science & Eng.	1996,94
Outstanding Research Achievement Award	<i>Sigma Xi</i> Research Society	1995
<i>Sigma Xi</i> Research Honor Society	NC State University	1995
<i>Alpha Sigma Mu</i> Materials Science Honor Society	NC State Materials Science & Eng.	1995
Young Investigator Award	Becton Dickinson Research Center	1994
Visiting Scientist Fellowship	National Ctr for Electron Microscopy	1994
Traveling Exhibit Poster Award	Microscopy Society of America	1994
 <u>Procter & Gamble Company</u>		
Team Achievement Award	Corporate Research Division	1992
Traveling Exhibit Poster Award	Microscopy Society of America	1992
 <u>Institute for Energy Technology</u>		
Research Fellowship	Royal Norwegian Council	1989
 <u>University of Cambridge</u>		
Advanced Study Institute Scholarship	North Atlantic Treaty Organization	1989
Edward Emley Award	Institute of Metals	1989
Visiting Associateship (extended life membership)	Clare Hall	1988
Research Fellowship	Hoechst-Celanese	1988-89

³ http://www.icheme.org/media_centre/news/2013/icheme-awards-2013-shortlists-announced.aspx#.Ujxi6CTsoXQ

⁴ American Society for Engineering Education

University of California at Berkeley

Sherwin-Williams Award Finalist	American Chemical Society (PMSE)	1987
Distinguished Scholar Award	Microbeam Analysis Society	1987
Research Achievement Award	WREMMA ⁵	1987
Acting Instructorship (taught classes; oversaw TAs)	Department of Chemical Engineering	1987
Presidential Award	Electron Microsc. Society of America	1986
Outstanding Teaching Assistant Award	University of California at Berkeley	1985

Pennsylvania State University

University Scholars Medal (inaugural year)	Schreyer Honors College	1983
<i>Phi Kappa Phi</i> Honor Society	Pennsylvania State University	1982
Golden Key Honor Society	Pennsylvania State University	1982
<i>Phi Lambda Upsilon</i> Chemistry Honorary Society	Pennsylvania State University	1982
<i>Omicron Delta Kappa</i> Leadership Honor Society	Pennsylvania State University	1982
ROTC ⁶ Superior Cadet Decoration	U.S. Army TRADOC ⁷	1981
Director's Saber Award for Outstanding ROTC Cadet	Penn State Univ. Schuylkill Campus	1981
<i>Tau Beta Pi</i> Engineering Honorary Society	Penn State Univ. Schuylkill Campus	1981
Scabbard & Blade Military Honor Society	Penn State Univ. Schuylkill Campus	1981
President's Freshman Scholar Award	Penn State Univ. Schuylkill Campus	1980

Research Highlights

Research results featured on journal cover	<i>Journal of Chemical Physics</i>	2018
Research results featured on journal cover	<i>Solar Rapid Research Letters</i>	2018
Research results featured on journal cover	<i>Macromolecular Rapid Commun.</i>	2017
Research results featured on journal cover	<i>Soft Matter</i> (RSC)	2017
Research results featured on journal cover	<i>Proc. Royal Microscopy Society</i> (RMS)	2017
Research results featured on journal cover	<i>J. Polymer Science B: Polymer Physics</i>	2017
Research results featured on journal cover	<i>J. Polymer Science B: Polymer Physics</i>	2017
Research results featured on journal cover	<i>Macromolecular Rapid Commun.</i>	2016
Research results featured on journal cover	<i>Macromolecular Rapid Commun.</i>	2015
Research results featured on journal cover	<i>Macromolecular Rapid Commun.</i>	2012
Research results featured on journal cover	<i>Langmuir</i> (ACS)	2011
Research results featured on journal cover	<i>J. Polymer Science B: Polymer Physics</i>	2011
Research results featured on journal cover	<i>Macromolecules</i> (ACS)	2010
Research results featured on journal cover	<i>Advanced Materials</i>	2007
Research results featured on journal cover	<i>Materials Research Society Bulletin</i>	2006
Research results featured on journal cover	<i>Macromolecular Rapid Commun.</i>	2006
Research results featured on book <i>Developments in Block Copolymer Science & Technology</i>		2004
Research results featured on journal cover	<i>Langmuir</i> (ACS)	2004
Research results featured on journal cover	<i>Macromolecular Chemistry & Physics</i>	2004
Research results featured on journal cover	<i>Macromolecular Chemistry & Physics</i>	2003
Research results featured on journal cover	<i>Advanced Materials</i>	2003
Research results featured on journal cover	<i>Macromolecular Rapid Commun.</i>	2002
Research results featured on <u>annual</u> journal cover	<i>Macromolecular Materials & Eng.</i>	2000
Research results featured on journal cover	<i>Microscopy Today</i>	1999
Research results featured on journal cover	<i>Langmuir</i> (ACS)	1997
Research results featured on journal cover	<i>Journal of Materials Science</i>	1996
Research results featured on journal cover	<i>Langmuir</i> (ACS)	1996
Research results featured on journal cover	<i>Langmuir</i> (ACS)	1995
Research results featured on journal cover	<i>Microscopy Research & Technique</i>	1994

⁵ Western Regional Electron Microscopists & Microbeam Analysts

⁶ Reserve Officers Training Corps

⁷ Training and Doctrine Command (Fort Bragg, NC)

Professional Memberships

<i>Alpha Chi Sigma</i> Professional Chemistry Fraternity	1984-
Vice-Master Alchemist (1987)	
American Chemical Society	1982-
Chairman (1995-96), Chairman-elect (1994-95) — North Carolina Polymer Discussion Group	
American Energy Society	2015-
American Physical Society	1991-
Asian Council of Science Editors	2014-
Institute of Materials, Minerals and Mining	2011-
Materials Research Society	1990-
President (1996), Secretary (1995) — North Carolina Section	
Microscopy Society of America	1986-96
National Program Committee (1992-94)	
Royal Society of Chemistry	2014-
Society of Plastics Engineers	2010-
The Minerals, Metals and Materials Society	2013-

Synergistic Activities

Editorial Advisory Board	<i>World Journal Textile Eng. & Technol.</i>	2015-
Editorial Advisory Board	<i>American Chemical Science Journal</i>	2014-
Editorial Advisory Board	<i>Journal Chemical & Process Eng.</i>	2014-
Editorial Advisory Board	<i>NanoSciTech Open Library</i>	2014-
Associate Editor	<i>Open Chemistry Journal</i>	2014-
Editorial Advisory Board	<i>The Open Journal of Biochemistry</i>	2014-
Editorial Advisory Board	<i>Journal Nanotechnol. & Mater. Sci.</i>	2014-
Editorial Advisory Board	<i>Int. J. Nanomedicine & Nanosurgery</i>	2014-
Editor-in-chief	<i>J. of Encapsulation & Adsorption Sci.</i>	2014-
Editorial Advisory Board	<i>German Journal of Materials Science</i>	2013-
Editorial Advisory Board	<i>American J. of Chemical Engineering</i>	2013-
Editorial Advisory Board	<i>Nanosci. & Technology: Open Access</i>	2013-
Editorial Advisory Board	<i>Chemical Eng. & Process Techniques</i>	2013-
Editorial Advisory Board	<i>SOJ Materials Science & Engineering</i>	2013-
Annual Editor-in-chief	<i>Innovations in Mater. Sci. & Eng.</i>	2013-14
Editorial Advisory Board	<i>Materials Science & Engineering Prog.</i>	2013-
Editorial Advisory Board	<i>Nanomaterials and Nanoscience</i>	2013-
Editor-in-chief	<i>Journal of Advanced Mechanical Eng.</i>	2011-12
Co-editor-in-chief	<i>Open J. Organic Polymer Materials</i>	2011-
Editorial Advisory Board	<i>Res. Bull. Inst. High Energ. Mater.</i>	2010-
Editor-in-chief	<i>Soft Nanoscience Letters</i>	2010-14
Editorial Advisory Board	<i>Langmuir (ACS)</i>	2008-10
Editor-in-chief	<i>Open Colloid Science Journal</i>	2008-12
Editorial Advisory Board	<i>International Journal of Polymer Sci.</i>	2008-
Editorial Advisory Board	<i>Open Macromolecules Journal</i>	2007-
Editorial Advisory Board	<i>Macromolecules (ACS)</i>	2003-05
Editorial Advisory Board	<i>Materials Today</i>	2002-07
Editorial Advisory Board	<i>Macromolecular Rapid Commun.</i>	2001-
Editorial Advisory Board	<i>Macromolecular Chemistry & Physics</i>	2001-
Invited Summer School Instructor	Peking University	2018
Goodnight Scholars Advisory Committee	NC State Goodnight Scholars Program	2015-
ACS/Wiley Young Scientist Award Judge	13 th PAT-15, Hangzhou, China	2015
Scientific Advisory Group	Int. Symp. Polym. Anal., Houston, TX	2015
Faculty Co-advisor	SPE Student Chapter	2013-
Faculty Advisor	NC State Badminton Club	2013-
International Advisory Board	4 th Int. Conf. Smart Materials, Italy	2012

Faculty Senate	NC State University	2012-16
Intellectual Property Committee	NC State University	2011-
Chair, Peer Evaluation of Teaching Committee	Department of Chemical Engineering	2008-
Invited Summer School Instructor	ICMR, ⁸ Univ. of CA at Santa Barbara	2007
Chair, Academic Misconduct Inquiry Board	NC State University	2006-08
Faculty Co-advisor	<i>Tau Beta Pi</i> Student Chapter	2003-04
Symposium Co-organizer	ACS Pacificchem, HI	2000
Faculty Co-advisor (inaugural)	MRS Student Chapter	1998-00
Director of Graduate Admissions	Department of Chemical Engineering	1999-03
Faculty Advisor	NC State Squash Club	1996-00

⁸ International Center for Materials Research