

Brian P. Grady
Associate Professor
School of Chemical Engineering and Materials Science
100 East Boyd EC Room T-223
Norman, OK 73019-0628
Phone: (405) 325-4369
Fax: (405) 325-5813
bpgrady@ou.edu
<http://coecs.ou.edu/Brian.P.Grady/index.html>

a. Professional Preparation

University of Illinois Urbana/Champaign	Chemical Engineering	B.S. 1987
University of Wisconsin/Madison	Chemical Engineering	PhD. 1994

b. Appointments

University of Oklahoma/Norman: Asst. Professor 3/94-7/99; Assoc. Professor 7/99-present
I am employed as an Associate Professor in the School of Chemical Engineering and Materials Science.

Humboldt Fellow: 8/1/00-8/1/01

I spent a year on sabbatical at the Max Planck Institute for Colloids and Interfaces, which is located in Golm, Germany. Financial support was through a Humboldt Fellowship.

Summer Faculty Research Program Participant: 5/95-8/95

I was a member of the Air Force Office of Scientific Research (AFOSR) Summer Faculty Research Program stationed at Tinker Air Force Base in the Composites Repair Shop.

Procter and Gamble: 6/87-8/89

As a project engineer in research and development, I was responsible for the design, construction, startup and operation of a \$200,000 pilot plant.

c. Honors and Awards

IUPAC Young Observer: 2001
Alexander von Humboldt Research Fellowship: 2000
National Science Foundation CAREER Award: 1998
College of Engineering Conoco Distinguished Lectureship Award: 1997
University of Oklahoma Junior Faculty Research Award: 6/94-8/94, 6/96-8/96
National Defense Science and Engineering Graduate Fellowship: 9/90-9/93
Wisconsin Alumni Research Foundation Fellowship: 9/89-9/90
University of Illinois Bronze Tablet: 1987
Reynold Clayton Fuson Award: 1987
Phi Beta Kappa: 1987
Tau Beta Pi: 1986

d. Professional Societies

American Institute of Chemical Engineers
American Physical Society
 Division of High Polymer Physics
American Chemical Society
 Division of Polymer Chemistry
 Division of Polymer Materials Science and Engineering
Society of Plastics Engineers

e. Representative Journal Articles (from a total of more than 50 refereed Journal Articles)

A.D.W. Carswell and B.P. Grady, "Electrically Conducting Polymeric Nanostructures: Techniques for One-Dimensional Synthesis" in *Encyclopedia of Nanoscience and Nanotechnology*, James A. Schwarz, Cristian Contescu, and Karol Putyera eds. (New York: Marcel Dekker) 2004.

M. Marquez and B.P. Grady, "The Use of Surface Tension to Predict the Formation of 2D Arrays of Latex Spheres formed via the Langmuir-Blodgett Technique", *Langmuir*, **20**, 10998 (2004).

E.M. Moore, D.L. Ortiz, V.T. Marla, R.L. Shambaugh and B.P. Grady, "Enhancing the Strength of Polypropylene Fibers with Carbon Nanotubes" *Journal of Applied Polymer Science*, **93**, 2926 (2004).

A.D.W. Carswell, E.A. O'Rear, B.P. Grady, "Adsorbed Surfactants as Templates for the Synthesis of Morphologically Controlled Polyaniline and Polypyrrole Nanostructures on Flat Surfaces: From Spheres to Wires to Flat Films", *Journal of the American Chemical Society*, **125**, 14793 (2003).

X. Wei, A.D.W. Carswell, W. Alvarez and B.P. Grady, "X-ray Photoelectron Spectroscopic Studies of Hydrophilic Surfaces Modified via Admicellar Polymerization", *Journal of Colloid and Interface Science*, **264**, 296 (2003).

B.C. McAlister, B.P. Grady, "The Use of Monte-Carlo Simulations to Calculate Small-Angle Scattering Patterns", *Macromolecular Symposia*, **190**, 117 (2003).

U. Somnuk, N. Yanumet, J. Ellis, B.P. Grady and E.A. O'Rear, "Adhesion Improvement in Glass Fiber Reinforced Polyethylene Composites via Admicellar Polymerization", *Polymer Composites*, **24**, 171 (2003)

B.P. Grady, F. Pompeo, R.L. Shambaugh and D.E. Resasco, "Nucleation of Polypropylene Crystallization by Single-Walled Carbon Nanotubes", *Journal of Physical Chemistry B*, **106**, 5852 (2002).

P. Leewajanakul, R. Pattanaolarn, J. W. Ellis, M. Nithitanakul and B.P. Grady, "The Use of Zinc-Neutralized Ethylene-Methacrylic Acid Copolymer Ionomers as Blend Compatibilizers for Nylon 6 and Low Density Polyethylene", *Journal of Applied Polymer Science*, **89**, 620 (2003).

W. Yuan, E.A. O'Rear, B.P. Grady and D.T. Glatzhofer, "Nanometer-Thick Polypyrrole Films Formed by Admicellar Polymerization under Conditions of Depleting Adsorption", *Langmuir*, **18**, 3343 (2002).

B.P. Grady, "The Use of X-ray Absorption Spectroscopy in the Study of Synthetic Polymers", *Microchemical Journal*, **71**, 267 (2002)

B.P. Grady, W. B. Genetti, R. J. Lamirand and M. Shah, "An Investigation of Heat Transfer Effects in Isothermal Crystallization Studies of Low-Density Polyethylene", *Polymer Engineering and Science*, **41**, 820 (2001).

7 book chapters and over 25 Invited Presentations

For more information see <http://coecs.ou.edu/Brian.P.Grady/index.html>