

(i) Professional Preparation

Texas Tech University	Chemical Engineering	B.S.Ch.E, 2001
Texas Tech University	Chemical Engineering	Ph.D., 2008
Texas Tech University	Postdoc area (Polymer Physics)	Aug. 08 – July 09

(ii) Appointments

2009 – Present	Assistant Professor of Chemical Engineering, College of Engineering – Extended Campus Program, University of Kentucky, Paducah, KY
2008 - 2009	Part-time Instructor, Department of Chemical Engineering, Texas Tech University, Lubbock, TX

(iii) Publications**(a) Five most Relevant Publications**

S. A. Hutcheson and G. B. McKenna, “The Measurement of Mechanical Properties of Glycerol, *m*-Toluidine and Sucrose Benzoate under Consideration of Corrected Rheometer Compliance: An In-depth Study and Review,” *Journal of Chemical Physics*, **129**, 074502 (2008).

K. Schröter, S. A. Hutcheson, X. Shi, A. Mandanici, and G. B. McKenna, “Dynamic shear modulus of glycerol: Corrections due to instrument compliance,” *Journal of Chemical Physics*, **125**, 214507 (2006).

A. Mandanici, R. Richert, M. Cutronia, X. Shi, S. A. Hutcheson and G. B. McKenna, “Relaxational features of supercooled and glassy *m*-toluidine,” *Journal of Non-Crystalline Solids*, **352**, 4729-4734 (2006).

A. Mandanici, X. Shi, S. A. Hutcheson, G. B. McKenna, M. Cutroni and S. Giambo, “Mechanical response of a simple molecular glass former in the glass transition region,” *Materials Science and Engineering A-Structural Materials: Properties, Microstructure and Processing*, **432**, 299-302 (2006). Correction: “Mechanical response of a simple molecular glass former in the glass transition region (vol 432, pg 299, 2006),” A. Mandanici, X. Shi, S. A. Hutcheson, G. B. McKenna, M. Cutroni and S. Giambo, *Materials Science and Engineering A-Structural Materials: Properties, Microstructure and Processing*, **442**, 551 Sp. Iss. SI (2006).

S. A. Hutcheson and G. B. McKenna, “Nanosphere Embedding into Polymer Surfaces: A Viscoelastic Contact Mechanics Analysis,” *Physical Review Letters* **94**, 076103 (2005). Erratum: “Nanosphere Embedding into Polymer Surfaces: A Viscoelastic Contact Mechanics Analysis,” S. A. Hutcheson and G. B. McKenna, *Physical Review Letters*, **94**, 189902 (2005).

(b) Four other significant publication

M. Alcoutlabi, S.G. Baek, J.J. Magda, X. Shi, S. A. Hutcheson and G. B. McKenna, “A Comparison of Three Different Methods for Measuring Both Normal Stress Differences of Viscoelastic Liquids in Torsional Rheometers,” *Rheologica Acta*, **48**, 191-200 (2009).

Q. Li, S. A. Hutcheson, G. B. McKenna, and S. L. Simon, "Viscoelastic Properties and Residual Stresses in Polyhedral Oligomeric Silsesquioxane (POSS)-Reinforced Epoxy Matrices," *Journal of Polymer Science B, Polymer Physics*, **46**, 2719 - 2732 (2008).

P. A. O'Connell, S. A. Hutcheson and G. B. McKenna, "Creep Behavior of Ultra-thin Polymer Films," *Journal of Polymer Science B, Polymer Physics*, **46**, 1952-1965 (2008).

S. A. Hutcheson and G. B. McKenna, "Comment on "The properties of free polymer surfaces and their influence on the glass transition temperature of thin polystyrene films" by J.S. Sharp, J.H. Teichroeb and J.A. Forrest," *European Physical Journal E*, **22**, 281-286 (2007).

(iv) Synergistic Activities

Service to scientific and engineering community

Presentation to Heath High School 9th Graders, "The Diversity of Chemical Engineers: Who Are We and What Do We Do," West Kentucky Community and Technical College, 09/17/2009.

Technical Program Chair for the Applied Rheology Special Interest Group, Society of Plastics Engineers Annual Technical Conference (ANTEC) 2009-Present

Scientific and professional societies

American Institute of Chemical Engineers, Society of Rheology, Society of Plastics Engineers

(v) Collaborators & Other Affiliations

(a) Collaborators and Co-Editors

Dow Chemical: P. A. O'Connell; *NC State University*: M. Alcoutlabi; *Smith International, Inc.*: Q. Li; *Tempur-Pedic*: X. Shi; *Texas Tech University*: S. L. Simon; *University of Utah*: S.G. Baek, J. J. Magda

(b) Graduate and Postdoctoral Advisors

Graduate and Postdoctoral Advisor: Prof. Gregory B. McKenna, Texas Tech University

(c) Thesis Advisor and Postgraduate-Scholar Sponsor

N/A