

**BIOGRAPHY:** Karen L. Wooley received a Bachelor of Science degree in Chemistry from Oregon State University in 1988 and then studied under the direction of Professor Jean M. J. Fréchet at Cornell University, obtaining a Ph.D. in polymer/organic chemistry in 1993. She began an academic career as an Assistant Professor of Chemistry at Washington University in St. Louis, Missouri, was promoted in 1999 to Full Professor with tenure, was installed as a James S. McDonnell Distinguished University Professor in Arts & Sciences in 2006, and in 2007, received an appointment in the School of Medicine, Department of Radiology. In July 2009, Karen relocated to Texas A&M University, where she undertook a professorship in the Department of Chemistry, as the W. T. Doherty-Welch Chair in Chemistry, with a joint appointment in the Department of Chemical Engineering. She was awarded the title of University Distinguished Professor in 2011, and was granted a joint appointment in the Department of Materials Science & Engineering in 2014. Research interests include the synthesis and characterization of degradable polymers derived from natural products, unique macromolecular architectures and complex polymer assemblies, and the design and development of well-defined nanostructured materials. The development of novel synthetic strategies, fundamental study of physicochemical and mechanical properties, and investigation of the functional performance of her materials in the diagnosis and treatment of disease, as non-toxic anti-biofouling or anti-icing coatings, as materials for microelectronics device applications, and as pollutant remediation systems are particular foci of her research activities. She has received young investigator awards from the National Science Foundation (1994-99), the Army Research Office (1996-99), and the Office of Naval Research (1998-01). Karen was named as a DuPont Young Professor (1996-99) and she received a 2002 Arthur C. Cope Young Scholar Award. In 2002 and 2008, she also was awarded NSF Division of Materials Research, Special Creativity Extension Awards and she was the recipient of the Academy of Science of Saint Louis Innovation Award in 2002. In 2005, she received a Washington University Distinguished Faculty Award. In 2008, she received one of the inaugural American Competitiveness and Innovation Awards from the U.S. National Science Foundation. She was awarded the Herman F. Mark Scholar Award from the Polymer Chemistry Division of the American Chemical Society in 2009. In 2014, she was awarded the American Chemical Society Award in Polymer Chemistry, a Royal Society of Chemistry Centenary Prize, and was named Fellow of the Royal Society of Chemistry and Honorary Fellow of the Chinese Chemical Society. Karen was inducted as a Fellow of the American Academy of Arts and Sciences and was selected to receive the Oesper Award in 2015. In 2016, she received both Distinguished Research and Teaching Achievement Awards from the Texas A&M University Association of Former Students. Karen currently serves as an Associate Editor for the *Journal of the American Chemical Society*, among many other advisory roles within the broader scientific community.

