Marino Xanthos

Marino Xanthos was a professor of chemical, biological and pharmaceutical engineering, associate provost for graduate studies, and senior technical adviser to the Polymer Processing Institute (PPI) at NJIT until his passing in the summer of 2013. Dr. Xanthos earned a bachelor's degree in chemistry from the Aristotelian University of Thessaloniki and master's and Ph.D. degrees in chemical engineering from the University of Toronto, where he studied under Professor R. T. Woodhams.

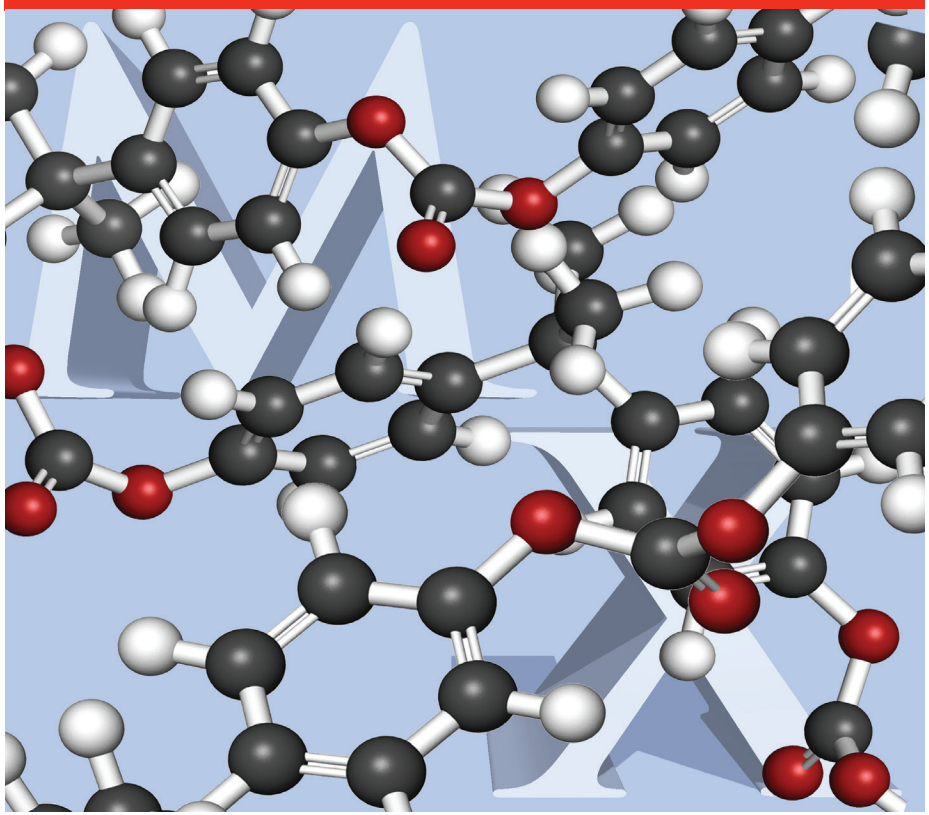
After receiving his doctorate in 1974, he joined the research division of Martin Marietta Resources International, where he rose to the position of research, development, and technical services manager. From 1980 to 1986, he served as professor and later as director of the Stevens Institute of Technology Overseas International Programs Office, Department of Polymer Science, Engineering and Technology, jointly operated with the Algerian Petroleum Institute. Then, from 1987 to 1995, he was the research director of the PPI and a Stevens research professor. He was appointed professor of chemical engineering at NJIT in 1995, where he served until his passing as director of the Polymer Engineering Center, director of the Center for Processing of Plastic Packaging, chairperson of the Executive Committee of the Materials Research Council, senior technical adviser to the PPI, and finally associate provost for graduate studies.

Dr. Xanthos was internationally recognized for his polymer blends, polymer composites and polymer foams expertise, and his studies of polymer modification through the use of functional particulate additives and reactive extrusion processes, which he also applied to the processing of pharmaceutical oral dosage forms. His research work and publications involved Ph.D. and master of science students at NJIT and Stevens. He was also involved with PPI's technical staff and industrial colleagues nationally and internationally, in the solution of important industrial problems.

Dr. Xanthos became a fellow of the Society of Plastics Engineers (SPE) in 2003 and received the NJIT Board of Overseers Harlan J. Perlis Award that same year in recognition of his exemplary scholarship and outstanding research in the field of polymers. He served as the U.S. representative to the Board of the Polymer Processing Society since 2005. In 2010, he received the Heinz List Award in recognition of his outstanding achievements in reactive processing and devolatilization.

Dr. Xanthos deeply cared for and was a renowned mentor and advisor to his graduate and undergraduate students. For many years, he was the adviser and life force of the NJIT student chapter of the SPE.

This lecture series was established by his family, friends and colleagues to memorialize his accomplishments and love of his chosen field.



Marino Xanthos Memorial Lecture 2018

Wednesday, October 24, 2018
2:30 p.m.
Eberhardt Hall, Room 112

NJIT
New Jersey Institute of Technology

Karen L. Wooley

Karen L. Wooley is the W. T. Doherty-Welch Chair in Chemistry, University Distinguished Professor and Presidential Impact Fellow at Texas A&M University, where she holds appointments in the Departments of Chemistry, Chemical Engineering and Materials Science & Engineering. She also serves as Director of the Laboratory for Synthetic-Biologic Interactions. Her academic training included undergraduate study at Oregon State University (B.S., 1988) and graduate study under the direction of Professor Jean M. J. Fréchet at Cornell University (Ph.D., 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 in 2006 as a James S. McDonnell Distinguished University Professor in Arts & Sciences, in 2007 received an appointment in the School of Medicine, Department of Radiology and in July 2009, Karen relocated to Texas A&M University. 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 environmental remediation systems are particular foci of her research activities. Recent awards include the American Chemical Society Award in Polymer Chemistry (2014), Royal Society of Chemistry Centenary Prize (2014), Fellow of the Royal Society of Chemistry (2014), Honorary Fellow of the Chinese Chemical Society (2014), Oesper Award (2015), Fellow of the American Academy of Arts and Sciences (2015), and both Distinguished Research and Teaching Achievement Awards from the Texas A&M University Association of Former Students (2016). Karen has served on the technical advisory boards and served in consulting capacities for several companies, from Fortune 500 companies to start-ups, and law firms. She is the co-founder and president of Sugar Plastics, LLC. 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.

PROGRAM

2:30 p.m.

Opening Remarks
Moshe Kam
Dean
Newark College of Engineering

Welcome
Basil C. Baltzis
Senior Vice Provost
Academic Affairs and Student Services
New Jersey Institute of Technology

Introduction of Lecturer
Piero Armenante
Distinguished Professor
of Chemical Engineering
New Jersey Institute of Technology

2:50 p.m.

Functional Polymer Materials Designed for Advanced Applications and Sustainability
Karen L. Wooley
2018 Marino Xanthos Memorial Lecturer
Departments of Chemistry, Chemical Engineering, and Materials Science & Engineering
Texas A&M University

4 p.m.

Social Hour
Eberhardt Hall
Room 113