



Marino Xanthos, Ph.D.



Marino Xanthos, Ph.D., 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.

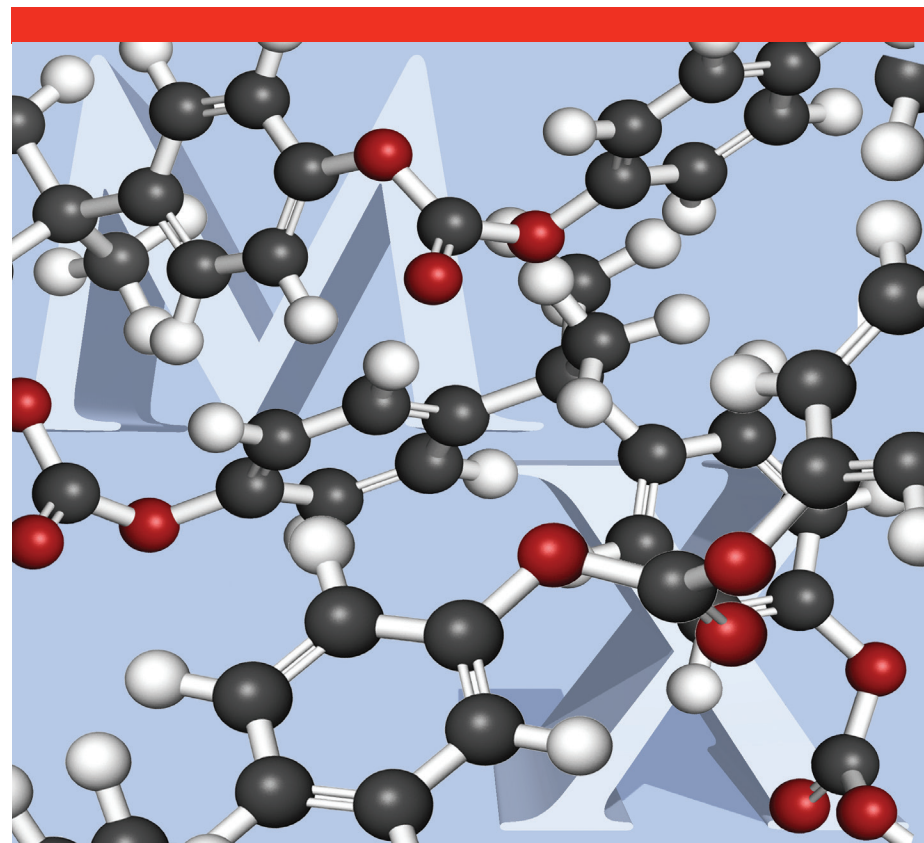
After receiving his doctorate in 1974, he joined the research division of Martin Marietta Resources International, where he eventually rose to the position of research, development, and technical services manager. From 1980 to 1986, he served as professor and later as director of Stevens Institute of Technology overseas International Programs Office Department of Polymer Science, Engineering and Technology, jointly operated with the Algerian Petroleum Institute. During the period of 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 of Processing of Plastics Packaging, chairperson of the Executive Committee of the Materials Research Council, senior technical adviser to the PPI at NJIT, 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 on 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.

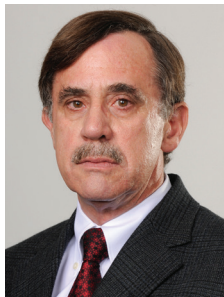
This lecture series was established by his family, friends and colleagues to memorialize his accomplishments and love of his chosen field.



Marino Xanthos Memorial Lecture 2016

Wednesday, September 21, 2016





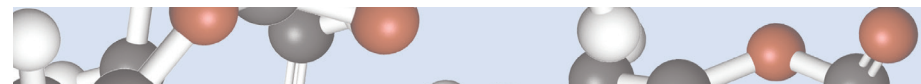
Thomas P. Russell, Ph.D.

Professor Thomas Russell is the Silvio O. Conte Distinguished Professor in the Polymer Science and Engineering Department at the University of Massachusetts at Amherst, as well as Visiting Professor at the Lawrence Berkeley National Laboratory, and Principal Investigator at the Advanced Institute of Materials Research at Tohoku University, Japan.

Professor Russell began his academic career in 1976 at Boston State College, where he received his B.S. in chemistry. He went on to receive his M.S. in 1976 and Ph.D. in 1979, both in polymer science and engineering, from the University of Massachusetts at Amherst. He then moved to Germany to work as a research fellow at the Institut für Physikalische Chemie, Universität Mainz. Subsequently, he moved to the IBM Almaden Research Center as a research staff member, where he remained for 16 years. He returned to academia in 1996 as a full professor of the faculty at the University of Massachusetts at Amherst, where he is today.

Professor Russell's research interests are focused on the science of soft matter, including surface and interfacial properties of polymers, phase transitions in polymers, directed self-assembly processes, the interfacial assembly of nanoparticles, wrinkling and behavior of thin polymer films, and the structure and morphology of polymer-based photovoltaic materials.

Professor Russell has coauthored more than 700 peer-reviewed publications and more than 20 books and book chapters, and his name appears on 11 patents. His work has received more than 45,000 citations. Professor Russell is the recipient of numerous awards, honors and distinctions, delivering more than 500 invited, keynote, plenary and named lectures around the world. Notable honors include the American Chemical Society Applied Polymer Science Award (2016); the Fred Kavli Distinguished Lecture at the Materials Research Society (2012); the Polymer Physics Prize from the American Physical Society (2004); the Otto Warburg Prize (2004); and the Dutch Polymer Award (2004). Professor Russell is the associate editor of the *Macromolecules* journal and is an elected member of the National Academy of Engineering.



PROGRAM

2 p.m.

Refreshments

2:30 p.m.

Opening Remarks

Moshe Kam, Ph.D.

Dean

Newark College of Engineering

Welcome

Joel S. Bloom, Ed.D.

President

New Jersey Institute of Technology

Introduction of Lecturer

Piero Armenante, Ph.D.

*Distinguished Professor
of Chemical Engineering*

New Jersey Institute of Technology

2:45 p.m.

Breaking Moore's Law

Thomas P. Russell, Ph.D.

*Polymer Science and Engineering
University of Massachusetts*

and

Materials Science Division

Lawrence Berkeley National Laboratory

4 p.m.

Social Hour

Weston Hall

Room 320