



## Marino Xanthos



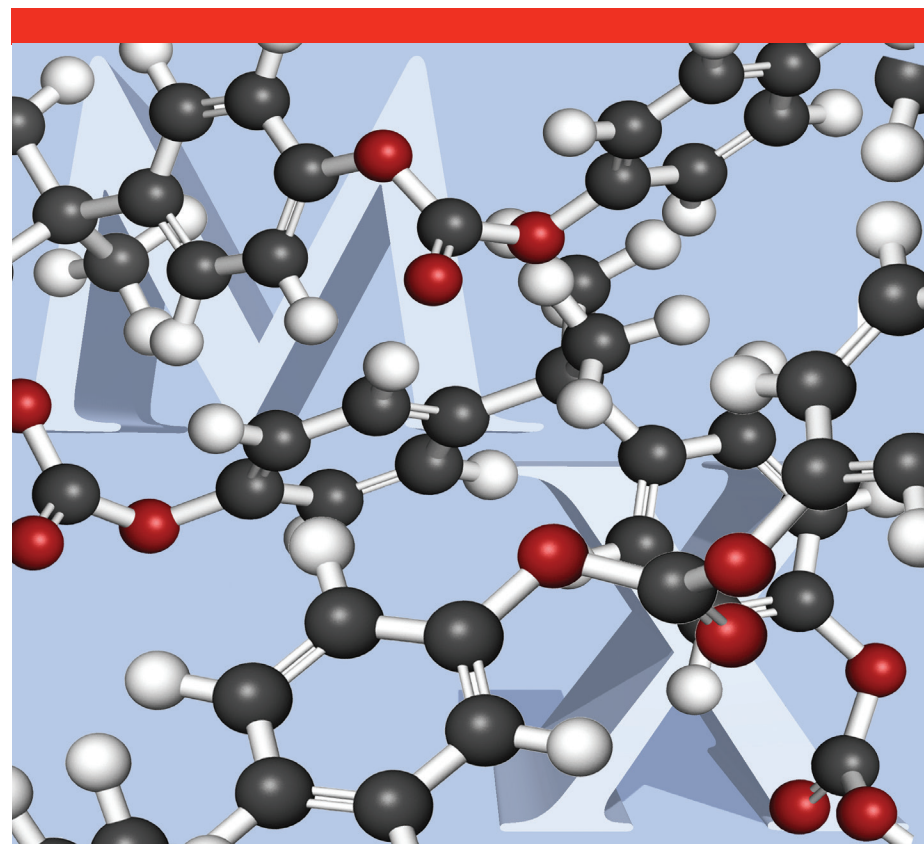
**M**arino Xanthos was a professor of chemical, biological and pharmaceutical engineering, associate provost for graduate studies, and senior technical adviser to the Polymer Processing Institute (PPI) at NJIT until his passing in the summer of 2013. Dr. Xanthos earned a bachelor's degree in chemistry 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 2019

Wednesday, October 30, 2019

2:30 p.m.

Central King Building  
Room L-70

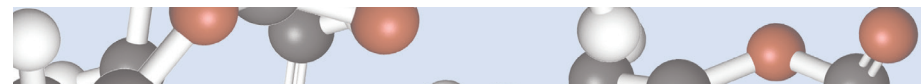




## Juan de Pablo

**J**uan de Pablo is the Liew Family Professor in the Pritzker School of Molecular Engineering at The University of Chicago, Vice President for National Laboratories and Senior Scientist at Argonne National Laboratory. A prominent materials scientist, Dr. de Pablo's research focuses on polymers, biological macromolecules,

and liquid crystals by developing molecular models and computer simulations of complex processes over wide ranges of length and time scales. In addition to his approximately 500 publications and a textbook on Molecular Engineering Thermodynamics, he holds more than 20 patents. Among his awards, Dr. de Pablo received the Polymer Physics Prize from the American Physical Society in 2018, the DuPont Medal for Excellence in Nutrition and Health Sciences in 2016, the Intel Patterning Science Award in 2015, and the Charles Stine Award from the American Institute of Chemical Engineers in 2011. He served as chair of the Mathematical and Physical Sciences Advisory Committee for the National Science Foundation, and the Committee on Condensed Matter and Materials Research at the National Research Council. He is the founding editor of the *Molecular Systems Design and Engineering* journal, and co-director of the new Center for Hierarchical Materials Design. Dr. de Pablo was inducted into the National Academy of Engineering in 2016 for "design of macromolecular products and processes via scientific computation." He is a Fellow of the American Academy of Arts and Sciences, the American Physical Society, and is a foreign correspondent member of the Mexican Academy of Sciences.



## PROGRAM

2:30 p.m.

### Opening Remarks

Moshe Kam

*Dean*

*Newark College of Engineering  
New Jersey Institute of Technology*

### 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.

### ***Liquid Crystals-From Simple Self Assembled Constructs, to Autonomous Materials***

Juan de Pablo

*2019 Marino Xanthos Memorial Lecturer  
Pritzker School of Molecular Engineering  
The University of Chicago*

4 p.m.

### Social Hour

*Central King Building  
Room L-70*