



SIGMA XI
THE SCIENTIFIC RESEARCH SOCIETY

**Georgia
Tech**



You are cordially invited to attend the

**2019 Sigma Xi Monie A. Ferst
Award Symposium**



Honoring

Dr. Nicholas A. Peppas

Cockrell Family Regents Chair Professor

University of Texas at Austin

Friday, November 8, 2019

8:00 am to 5:00 pm

GTMI Auditorium (101)

Georgia Institute of Technology

Georgia Tech Manufacturing Institute

813 Ferst Drive NW, Atlanta, GA 30332

Refreshments will be provided during break.

2019 Sigma Xi Monie A. Ferst Award Symposium

*In honor of
Dr. Nicholas A. Peppas
Cockrell Family Regents Chair Professor
University of Texas at Austin*

Program, GTMI Auditorium (101)

Friday, November 8

8:00 – 8:30	Light breakfast refreshments	GTMI Atrium (first floor)
8:30 – 8:35	Zhuomin Zhang, Sigma Xi GT Chapter President	Welcome
8:35 – 8:40	Peter Hesketh, Georgia Tech	The Monie A. Ferst Award
8:40 – 8:45	Mark Byrne, Professor & Founding Dept. Head Biomedical Eng., Rowan University	Remarks by the Symposium Organizer
AM Session Chair: J. Ruben Morones-Ramirez Professor, Universidad Autonoma de Nuevo Leon		
8:45 – 9:15	Jennifer Sinclair Curtis, Distinguished Professor & Dean of Engineering, UC Davis	Some Interesting Features of Granular Flow
9:15 – 9:45	Surya Mallapragada, Marston Distinguished Professor & Assoc. VP Research, Iowa State University	Biomaterials for Combination Therapies and Immunomodulation: A Peppas- inspired Journey
9:45 – 10:15	Break	
10:15 – 10:45	John Klier, Professor & Dept. Head Chemical Eng., U Mass Amherst	New Functional Monomers for In-Situ Functionalization of Water Soluble Polymers and Coating Materials
10:45 – 11:10	J. Zach Hilt, Eminent Professor, Univ of Kentucky	Remotely Controlled Materials as Next Generation Biomaterials and Beyond
11:10 – 11:35	Susan Napier Thomas, Woodruff Assoc. Professor, Georgia Tech	Tumor Lymphatic Drug Delivery and Bioengineering
11:35 – 12:00	Cristi Bell-Huff, Lecturer, Georgia Tech & Emory Univ	The Road Less Travelled: From Peppamer to Pedagogy
12:00 – 1:15	Lunch	GTMI Atrium (first floor)
PM Session Chair: Christopher Brazel Professor, University of Alabama		
1:30 – 2:00	John Clegg, Fellow, Wyss Institute, Harvard	Modular Functionalization of Nanoscale Hydrogels for Cancer Precision Medicine
2:00 – 2:30	Johnna Temenoff, Professor, Assoc. Chair Translational Research Dept. Biomedical Eng., Georgia Tech & Emory Univ	Protein and Cell Delivery for Repair of Rotator Cuff Muscle
2:30 – 2:45	Break	
2:45 – 3:15	Esmail Jabbari, Professor, Univ South Carolina	Hydrogels for Controlled Morphogen Delivery in Skeletal Tissue Engineering
3:15 – 3:45	Mark Byrne, Professor & Founding Dept. Head Biomedical Eng., Rowan Univ	Biomimetic and Biohybrid Materials: Translation of New Technology for Ophthalmology and Drug Delivery to the Brain
3:45 – 4:00	Refreshment Break	GTMI Atrium (first floor)
Award Presentation and Awardee Address		
4:00 – 4:10	Zhuomin Zhang	Monie A. Ferst Award Presentation to Dr. Peppas
4:10 – 5:15	Nicholas A. Peppas	Synthetic and Hybrid Nanoscale Systems Respond to Biological Conditions to Deliver Therapeutic Agents