

Arnold D. Kerr Lecture

in Engineering
Mechanics
and Design



DR. ARNOLD D. KERR

The Kerr Lecture Series honors Dr. Arnold D. Kerr, Professor Emeritus of Civil Engineering at the University of Delaware. The series brings distinguished scientists and engineers to the University of Delaware each year to speak on topics in engineering mechanics and design. An endowment established in Kerr's name upon his retirement in 2004 provides funds for the lectureship.

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ARNOLD D. KERR LECTURE

MODELING TO SUPPORT REGIONAL HURRICANE RISK MANAGEMENT POLICY DESIGN



Dr. Linda K. Nozick

Director, School of Civil and
Environmental Engineering
Cornell University

APRIL 30, 2018

3:00 P.M. RECEPTION | DU PONT HALL LOBBY
4:00 P.M. LECTURE | MITCHELL HALL

ABSTRACT

Despite numerous efforts to better manage natural disaster risk in the U.S. there are dramatic increases in the consequences of natural disasters. U.S. losses from Hurricanes Harvey and Irma are estimated at between \$150 and \$200 billion. There are a number of actions that can be taken to control these losses from improved systems for insurance and retrofit, to property acquisition. How to properly integrate these strategies into effective policies to stem these losses is a daunting challenge because of the differences in stakeholder motivations. This talk will focus on a dynamic computational framework of tightly coupled integrated mathematical models that explicitly integrates the perspectives of homeowners, insurance carriers and the government to understand how different policies impact uninsured regional losses. A detailed case study of residential eastern North Carolina will be described.

BIOGRAPHY

Linda Nozick received a B.S. in Systems Analysis and Engineering from George Washington University in 1989, a M.S.E and Ph.D. in Systems Engineering from the University of Pennsylvania in 1990 and 1992, respectively. In 1992 she joined the faculty at Cornell University in Civil and Environmental Engineering as an Assistant

Professor. She is currently the Director of the School of Civil and Environmental Engineering at Cornell University. She is also the Co-Founder and Director of the College Program in Systems Engineering, a program for which she served as Director for about 5 years. From 1998 to 1999, Dr. Nozick was a Visiting Associate Professor in the Operations Research department at the Naval Postgraduate School in California. Dr. Nozick has been the recipient of several professional honors including a CAREER award from the National Science Foundation and a Presidential Early Career Award for Scientists and Engineers from President Clinton. Dr. Nozick has also received recognition awards from Sandia National Laboratories and the National Nuclear Security Administration for the development of modeling tools for nuclear stockpile analysis, transportation of hazardous/sensitive materials, enterprise planning and budget analyses. She currently serves on the Nuclear Waste Technical Review Board (NWTRB), a position she was appointed to by President Obama in 2011. She has been an associate editor for Naval Research Logistics and a member of the editorial board of Transportation Research Part A.