

CyberSecurity - Serving Society Badly

(co-sponsored by CCT and the Computer Science Department)

Dr. Anita K. Jones

University Professor and Professor of Computer Science in the School of Engineering and Applied Science, University of Virginia

Date: Apr 18th, 2008 Time: 1:00 PM - 2:00 PM
Venue: 143 Coates Hall Reception: 2:00 PM

Abstract

During the latter half of the 20th century the world created a new infrastructure - the cyber, or information, infrastructure. It underpins many of the processes and activities of society. Usefulness of the cyber infrastructure depends on many aspects, and notable among them is security. Fundamentally, today's perimeter defense model on which most cyber security relies does not work, and cannot work. This talk will characterize the fragility and the failures of today's cyber security. It will comment about new security distinctions, particularly those related to privacy and identity. It will review past research, the state of the art and the practice of information security today, and options for improvement.

Bio

Professor Jones is a University Professor in the University of Virginia and a Professor of Computer Science in the School of Engineering and Applied Science, previously having served as chair of the Department of Computer Science. The Honorable Anita K. Jones was sworn in as the Director of Defense Research and Engineering for the U.S. Department of Defense in June 1993. Professor Jones is past vice-chair of the National Science Board, which advises the President on science, engineering, and education as well as oversees the National Science Foundation. She is also a member of the Defense Science Board, the Charles Stark Draper Laboratory Corporation, and the MIT Corporation Executive Committee. She is a member of the National Academy of Engineering and a Fellow of the Association for Computing Machinery, the Institute of Electrical and Electronics Engineers, the American Academy of Arts & Sciences, and the American Academy for the Advancement of Science. She has received the Computing Research Association's Service Award, the Air Force Meritorious Civilian Service Award, the Department of Defense Award for Distinguished Public Service, and the IEEE Founders Award. She is currently a member of the Board of Directors of Science Applications International Corporation and In-Q-Tel. Both Duke University and Carnegie Mellon University awarded her Honorary Doctorate degrees. Dr. Jones holds an A.B. from Rice University in mathematics, a Master of the Arts from the University of Texas, Austin, in literature, and a Ph.D. in computer science from Carnegie Mellon University.