ROBERT E. GEER, PH.D.
CNSE Vice President for Academic Affairs and CNSE Chief Academic Officer Professor of Nanoscale Science

As CNSE Vice President for Academic Affairs and CNSE Chief Academic Officer, Professor Geer leads the development and implementation of the College's academic degree and outreach programs. As a founding faculty member of CNSE, Professor Geer also leads various research projects in the fields of nanoelectronics, nanomaterials, and nanometrology. Current areas of interest include investigations of self-assembling, Si-based molecular wires and devices for next generation integrated circuits, and development of nanoscale metrology tools for measurement and characterization of nanodevice structures including nano-acoustic imaging systems for carbon nanotubes, nanobelts and nanowires, and nano-optical systems for strain metrology in advanced CMOS device structures. Professor Geer also directs R&D programs in nanoparticle-based planarization processing for computer-chip manufacturing. Professor Geer's research has been supported by the National Science Foundation, IBM, AMD, the Office of Naval Research, the New York State Office of Academic Research and Technology, the Dow Chemical Company, the Dow-Corning Corporation, W. L. Gore, Inc., the Defense Advanced Research Projects Agency (DARPA), Raytheon Vision Systems, the Microelectronics Advanced Research Corporation (MARCO), and the Nanoelectronics Research Corporation (NERC).

Professor Geer has developed and taught a wide array of graduate courses and workshop short courses on nanomechanics and nanometrology. He is involved with high-school and undergraduate outreach efforts in workforce development and nanotechnology education at the College of Nanoscale Science and Engineering including the first SEMI Workforce Development Institute program for high school students held on the East Coast. Professor Geer received his Ph.D. in Condensed Matter Physics from the University of Minnesota in 1992. He was awarded a National Research Council Research Fellowship for the study of molecular self-assembly at the Naval Research Laboratory in Washington, D.C. He joined the staff of the Naval Research Laboratory in 1995 as a research physicist before accepting a faculty position at the University at Albany in 1996. Professor Geer has presented over 50 papers at technical conferences and has published more than 50 articles, book chapters, or proceedings on nanoscale materials and nanoscale characterization.

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