



The Hawaii Center for Advanced Communications,  
University of Hawai'i at Manoa, College of Engineering,  
is pleased to present the following  
**Special Seminar:**

## ***NSF Program Opportunities in Engineering***

by

***Lawrence S. Goldberg, Ph.D.***  
**National Science Foundation**

**When: Monday, April 23, 2007, 2:00 – 3:00 pm**

**Where: Marine Sciences Bldg. (MSB) Room 100  
University of Hawai'i at Manoa**

### **Biography:**

Dr. Lawrence S. Goldberg was born in St. Louis, Missouri. He received his B.S. degree in Engineering Physics from Washington University in 1961, and his Ph.D. degree in Solid State Physics from Cornell University in 1966. From 1966-67, he spent a postdoctoral year as research assistant at the Physikalisches Institut, Universität Frankfurt, Germany. From 1967-1985, he was with the Naval Research Laboratory as research physicist in the Optical Sciences Division. During 1976-1977, he was on sabbatical leave at Imperial College, London, England. Dr. Goldberg's research interests have been in lasers, nonlinear optics, optical parametric devices, ultrashort pulse lasers and spectroscopy, liquid crystals, and radiation defects in crystals.

Dr. Goldberg came to the National Science Foundation in 1985 as Program Director for the Quantum Electronics, Waves, and Beams Program, in the Division of Electrical and Communications Systems, Directorate for Engineering. In the summer of 1989, he served as Acting Head of the NSF Office in Tokyo, Japan. His

program responsibilities at NSF covered research areas of quantum electronics, optics, plasmas, and electromagnetics. He served also as Senior Staff Advisor and as Acting Division Director. In 1994, Dr. Goldberg was appointed Director of the Division of Electrical and Communications Systems and served until January 1998. Dr. Goldberg now holds the position of Senior Engineering Advisor.

Dr. Goldberg served under appointment by the President's Science Advisor as NSF member of the Joint Management Committee for the U.S.-Japan Joint Optoelectronics Project. He represented NSF on the interagency Electronics Subcommittee, Committee on Industry and Technology, NSTC, and was NSF government liaison to the Board of Directors of the Semiconductor Research Corporation (SRC). He helped develop and coordinate the NSF-wide initiative in Optical Science and Engineering, the NSF/DoE Partnership in Basic Plasma Science and Engineering, and the NSF/NIH Scholar-in-Residence at NIH. He provided oversight for the National Nanofabrication Users Network (NNUN), and served five-years as chair of the NSF coordinating committee for the Integrative Graduate Education and Research Traineeship (IGERT) program.

Dr. Goldberg had guided the competition and now provides oversight for the National Nanotechnology Infrastructure Network (NNIN). He is cognizant program officer for the NSF Science and Technology Center on Nanobiotechnology at Cornell University, and the NSF/DARPA Photonics Technology Access Program (PTAP). He is a Division liaison to the Engineering Research Centers (ERC) program, having earlier overseen the ERC on Wireless Integrated Microsystems at the University of Michigan. Dr. Goldberg coordinates joint activities on nanoelectronics with the SRC and the Silicon Industry Association (SIA), conducted under NSF's priority area of Nanoscale Science and Engineering. He also coordinates the Major Research Instrumentation (MRI) program for the Engineering Directorate.

Dr. Goldberg served under appointment in early 2005 as U.S. Embassy Science Fellow in Chisinau, Moldova, where he worked in close cooperation in an advisory role with the Academy of Sciences of Moldova. He has since participated in government-level science studies in Ukraine, Kazakhstan, and Romania.

Dr. Goldberg is Fellow of the Optical Society of America, and Fellow of the Institute of Electrical and Electronic Engineers.