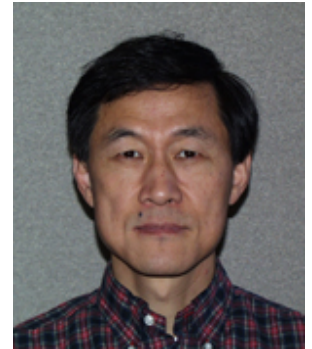




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Abstract

Title: *NSF and its photonics program overview*

This talk will provide an introduction of the National Science Foundation and more specifically the Photonics program within ECCS division. The photonics program seeks to improve the fundamental understanding and transformative concepts of devices and components including: photonic integrated circuits; solid state lighting sources, enabling optoelectronic devices for optical communications and networking; sources and detectors from extreme UV to infrared for communications, sensors and metrology; bio-photonics devices and subsystems for bio-imaging and spectroscopy; ultrafast optics and broadband optical signal processing; and sources and detectors for terahertz technology. Opportunities and challenges in these areas will be discussed.

Biography

***DR. HUI** is a program director of the Electronics, Photonics and device Technologies (EPDT) program within the ECS division. He has core responsibility for proposals in the areas of Photonics, optoelectronics and optical device technologies.*

Dr. Hui received the B. S. and M.S. Degrees from Beijing University of Posts and Telecommunications, China in 1982 and 1988, respectively, and the PhD Degree from Polytechnic University of Torino, Italy in 1993 all in Electrical Engineering. He joined the National Science Foundation in May 2006, as an IPA on assignment from the University of Kansas in Lawrence KS, where he is a professor of Electrical Engineering and Computer Science. His research interests are in lightwave communication systems and subsystems, photonic devices, optical instrumentation and photonic sensors. Prior to joining the faculty of the University of Kansas in 1997, Dr. Hui was a member of scientific staff at Bell-Northern Research and then Nortel-networks in Ottawa, Canada, where he was involved in the research and development of high-speed optical fiber communication systems. Dr. Hui is currently serving as Associate Editors of IEEE Transactions on Communications and IEEE Journal of Quantum Electronics.