2007 OSA Engineering Excellence Award Winner: Ming C. Wu

OSA Award

The 2007 OSA Engineering Excellence Award was presented to Professor and BSAC co-Director Ming C. Wu at the Frontiers in Optics Conference on September 17, 2007 in San Jose, CA. **Professor Wu is recognized for seminal contributions in the fields of optical micro-electro-mechanical systems (MEMS) and ultrafast semiconductor lasers.**

Ming Wu is Professor of Electrical Engineering and Computer Sciences at the University of California, Berkeley, and Co-Director of Berkeley Sensor and Actuator Center (BSAC). He received his Ph.D. from the UC Berkeley in 1988. He was a member of technical staff at AT&T Bell Laboratories, Murray Hill (1988-1992) and professor of Electrical Engineering at UCLA (1993-2004). He also co-founded OMM in San Diego (1997) to commercial MEMS optical switches. He has published 140 journal and 300 conference papers, six book chapters, and was granted 16 U.S. patents. Prof. Wu is a Fellow of IEEE. He received a Packard Foundation Fellowship in Science and Engineering in 1992. He is the founding Co-Chair of IEEE/LEOS Summer Topical Meeting on Optical MEMS (1996), the predecessor of IEEE/LEOS International Conference on Optical MEMS.

Dr. Wu's research interests are in optical MEMS, MOEMS (micro-opto-electro-mechanical-systems), high-speed optoelectronics, and optofluidics. His group pioneered the development of free-space optical MEMS, in which optical elements (mirrors, gratings, lens) are monolithically integrated with optomechanical mounts (XYZ stages) and MEMS actuators. 16x16 optical crossbar switches have been commercialized using this technology. Dr. Wu also co-invented monolithic colliding pulse mode-locked semiconductor lasers, which produced some of the shortest optical pulses and highest repetition frequencies in monolithic diode lasers. Recently, he is interested in the high frequency response of optical injection-locked lasers and optoelectronic trapping of micro and nano objects.