



IEEE SF Bay Area MEMS and Sensors Chapter

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The long path from MEMS Resonators to Timing Products



Speaker: Professor Tom Kenny, Stanford University.

Date/Time: Wednesday, Feb. 24th, 2016, 7:00 pm

Location: Texas Instruments Building E Conference Center, 2900 Semiconductor Dr., Santa Clara, CA 95052

Food: Pizza and beverages will be available starting at 6:00 pm for a donation at the door.

Sponsorship: Contact sfba-mems-officers@listserv.ieee.org if you are interested in sponsorship this meeting.

Research on MEMS resonators began over 50 years ago, and has continued throughout that time, with many successes and many challenges. In just the last 10 years, there has been a series of important technological developments, and (finally!) success at commercialization of MEMS for timing products. This presentation will highlight some key milestones along this path, describe some of the critical technology steps that led to MEMS becoming viable for the timing market. The talk will also outline some of the important steps and decisions that took place within SiTime and elsewhere that helped us reach a successful outcome.

Bio: Thomas Kenny is the Richard W. Weiland Professor in Mechanical Engineering. In 1994 he joined the Department of Mechanical Engineering. His group is researching fundamental issues and applications of micromechanical structures. These devices are usually fabricated from silicon wafers using integrated circuit fabrication tools. Because this research field is multidisciplinary in nature, work in this group is characterized by strong collaborations with other departments, as well as with local industry. Kenny worked at the NASA Jet Propulsion Laboratory from 1989 to 1993, where his research focused on the development of electron-tunneling high-resolution microsensors. He is a member of Bio-X. Kenny is a founder of Cooligy, Inc., a microfluidics chip cooling components manufacturer, and serves on the Board of Directors of SiTime Corporation (2004 - Present). He received the BS degree in physics from the University of Minnesota, Minneapolis and the MS and PhD in physics from the University of California, Berkeley. He is a fellow of ASME.