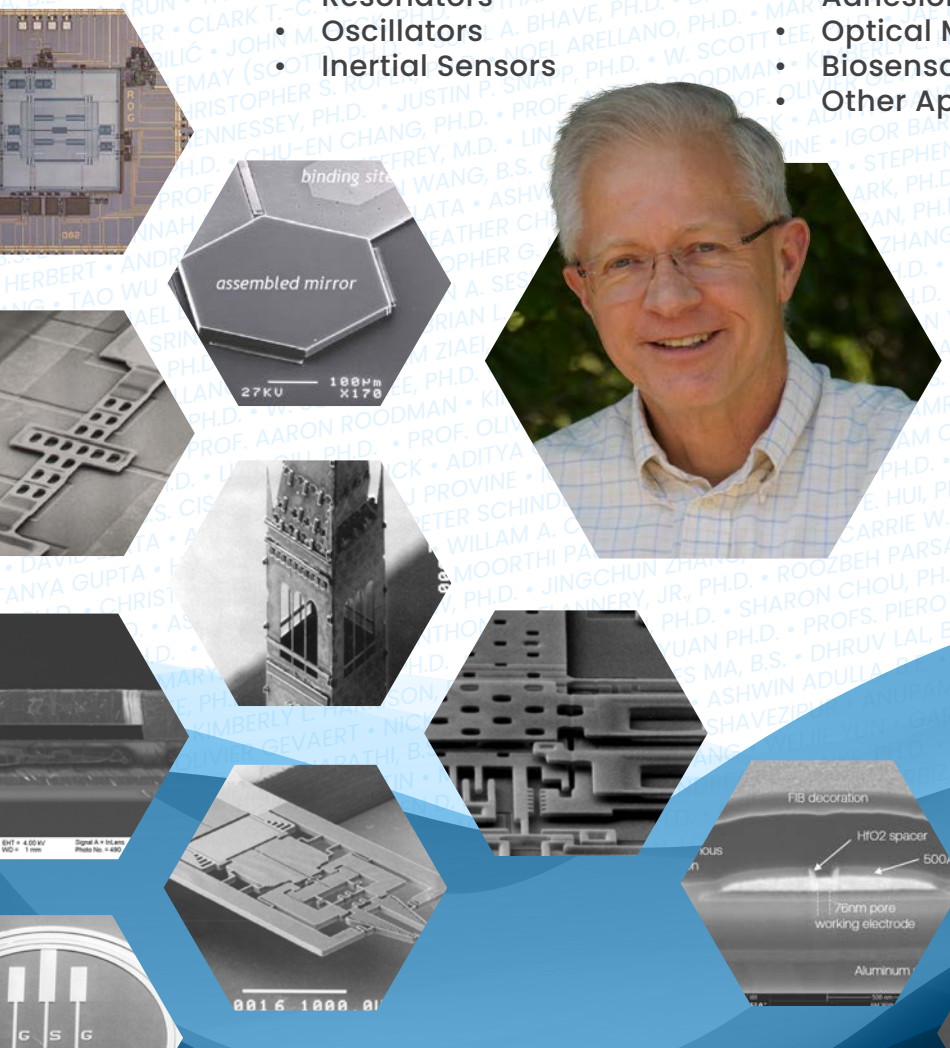
MEMS Know Howe

June 2, 2024
10:00 – 15:00 with break for lunch
Hilton Head Island, SC, USA

Professor Roger Howe, a leading figure in the field of Micro-Electro-Mechanical Systems (MEMS), is set to retire from Stanford University this year. In honor of his retirement, a symposium is being organized to celebrate his transformative contributions to MEMS technology.

The event will feature talks from Professor Howe's colleagues and students, who will highlight the various facets of Professor Howe's impact on the MEMS community.

- Surface micromachining
- Resonators
- Oscillators
- Inertial Sensors
- Self-Assembly Processes
- Adhesion in Microstructures
- Optical MEMS
- Biosensors
- Other Applications...



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Morning Session 10am-12pm

- Kurt Petersen, Silicon Valley Band of Angels - Howe MEMS Really Took Off
- Bill Tang, UC Irvine - Microfabricated Electrostatic Comb Drive
- Michael Judy, Consultant - Howe polysilicon surface micromachining transformed Inertial MEMS
- Gary Fedder, CMU - Integration of MEMS and CMOS
- Roya Maboudian, UC Berkeley - Adhesion and adhesion reduction processes in surface micromechanical structures
- Karl Bohringer, University of Washington - Microassembly Processes

Afternoon Session 1pm-3pm

- Clark Nguyen, UC Berkeley - MEMS Resonators and Oscillators
- Tom Kenny, Stanford University - Howe Silicon MEMS Resonators Began the Path to Timing Products
- Andrei Shkel, UC Irvine - MEMS vibratory gyroscopes are becoming 3D and Atomically Precise
- Olav Solgaard, Stanford University - Optical MEMS
- Igor Bargatin, University of Pennsylvania - Application of ultrathin ALD plates
- Chaitanya Gupta, Probius - Simplifying bioassay development with QES
- Roger Howe, Stanford University - Summary and Wrap-up