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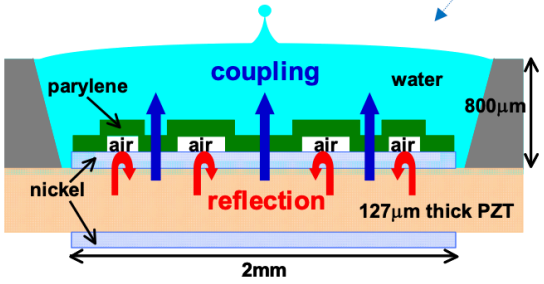
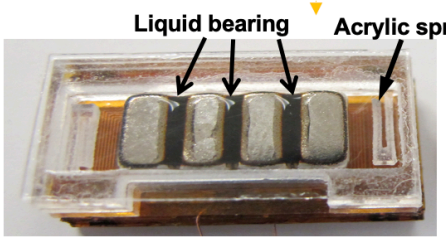
- William M. Hogue Professor in Electrical and Computer Engineering
- Ph.D., M.S. & B.S. in EECS from UC Berkeley (1990, 1987 & 1982, respectively)
- "Fundamentals of MEMS," Textbook Published April 2021, Pages: 416
- Fellow of the National Academy of Inventors (NAI), 2023
- IEEE Fellow (2011), IOP Fellow (1996)
- ≈270 refereed papers and 19 issued US patents

Research interests:

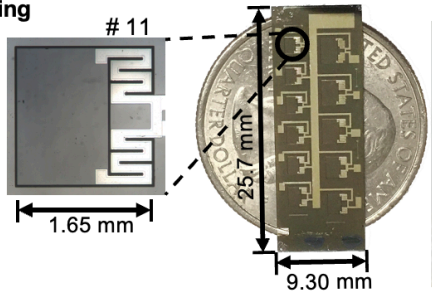
- Acoustic MEMS: underwater and air propellers, droplet ejector, acoustic tweezers, micromixer, active noise cancellation for hearing aids, wearable stethoscope
- Biomedical Applications of Focused Ultrasound: neural stimulation, cancer therapeutics
- Wireless and/or Battery-less Sensing Systems: vibrational energy harvesters



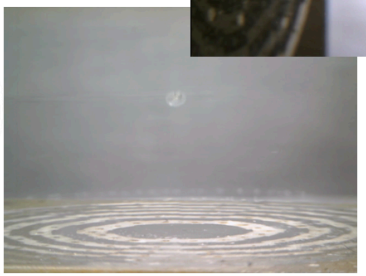
Self-focusing Acoustic Transducer (SFAT) with Air Cavity Lens



Non-resonant Electromagnetic Energy Harvester (1.1 cc, 2.5 g) with Liquid Bearing and 675-turn Coil Array



Array of 11 Piezocantilever-based Microphones with S-shape Support Beams



Trapping of Zebrafish Egg (1 mm in diameter, 1.4 mg in weight) with Acoustic Tweezers