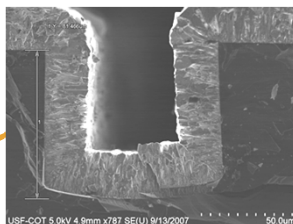


Who we are

SRI International is an independent, nonprofit corporation with about 2,100 staff members in more than 20 locations worldwide.

MicroScience Engineering Laboratory, Physical Sciences Division

Utilizing the fields of microelectromechanical systems (MEMS) and materials science to develop innovative micro- and nanometer scale structures, sensors, and systems for real-world applications.



Process Integration

Diamond films deposited on etched silicon structures

Advanced Materials

- Micro- and nanocrystalline diamond
- Graphene
- Nanocomposites
- Aluminum oxide; aluminum nitride; gallium nitride and zinc oxide

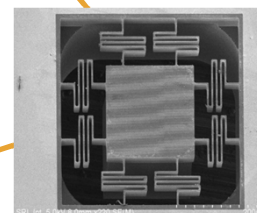


50-mm polished microcrystalline diamond wafer



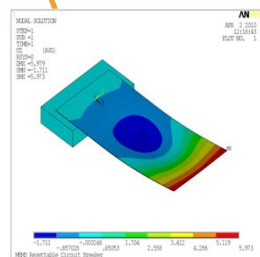
Sensors and Actuators

- Multiparameter marine sensor, measuring conductivity (salinity), temperature and depth/pressure (CTD)
- Integrated weather sensor system featuring temperature, relative humidity, wind speed, barometric pressure, and light intensity all sensed on a single chip
- Acoustic transducer arrays
- Optical grating sensor and accelerometer



Accelerometer using optical subwavelength gratings

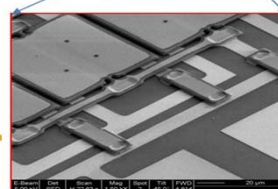
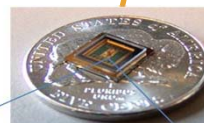
Modeling and Simulation



Thermal-electrical simulation of MEMS circuit breaker

MEMS System Design and Fabrication

- Visible imaging of nonvisible scene information
- Retro-reflective optical data communications - corner cube reflector
- MEMS mirror arrays
- Direct optical readout of physical sensors



Corner cube retroreflector-passive optical data link