### About Berkeley Sensor & Actuator Center: The National Science Foundation Industry/University Cooperative Research Center on MEMS







## Goal: MEMS Commercialization Through Industry-University Collaboration





## **BSAC Center Statistics**







Kris Pister Electrical Engineering



Clark Nguyen Electrical Engineering



Michel Maharbiz Electrical Engineering



**Roya Maboudian** 

**Chemical Engineering** 

Richard Muller Electrical Engineering



Mike Cable Executive Director



Richard White Electrical Engineering



Bernhard Boser Electrical Engineering



David Horsley Mechanical Engineering



Ali Javey Electrical Engineering

Co-Directors



Liwei Lin Mechanical Engineering



Dorian Liepmann Bioengineering





## **BSAC** Membership Benefits

Biannual meetings Website/database access Faculty and student access Prepublication Early IP access Optional supported project

Project organization and access are key elements



# **Invention Process BSAC**

**BSAC Inventions Disclosed First** (90 Days):

- **To All Industrial Members** (if Funded by federal, state, or Membership Fees
- **To Sponsoring Company** (if Funded through Sponsored Project)

Member Requests Enabling Disclosure

• Usually Fulfilled within 1-2 work days of request



License or Time-Reserved Option Negotiated with OTL/IPIRA\*

\*(Office of Technology Licensing)



## BSAC Industrial Members



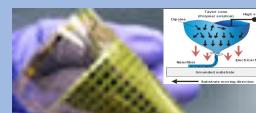
Marvell Nano Fabrication Laboratory 15,000 sf; 350 Users, BSAC access advantages BSAC VIF receive reduced recharge rates (same as Graduate Students) BSAC Nanolab Researchers=Superusers





# **Major Thrusts**

TRILLIONS OF CONNECTED SENSING DEVICES



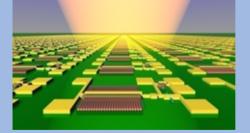
### **Conformal Electronics** & Active Fabrics

Motion / Environmental Sensing: Gyro, Accelerometer, Magnetometer, Ultrasound, Pressure, Particulates, Gas...



### Harsh Environment Materials, Processes, Devices

### Integrated Photonics



### Wireless, MicroEnergy Generation, Sensing, Storage



### Microfluidics & <u>Bio</u>MEMS





