

# **Spring 2017 IAB & Research Review - Agenda**

## **Tutorials: Energy Harvesting**

Pre-arranged Faculty or Project Meetings  
Proposals  
Registration  
Tutorial - Energy Harvesting  
Reception and Mixer

**08 March 2017**

**Sibley Auditorium, Bechtel Engineering Center**

<b><u>Time</u></b>	<b><u>Speaker, Event / Topic Information</u></b>
09:00	<b>Pre-Arranged Faculty or Project Meetings</b>
12:30	<b>Registration</b>
13:25	<b>Proposals Session</b>
13:30	<b>Dr. Mike Cable</b> Welcome/Intro
13:40	<b>Prof. Clark T.-C. Nguyen</b> Fully Integrated CMOS-MEMS Wireless Transceiver
14:00	<b>Prof. Liwei Lin</b> Printed Flexible Sensors, Actuators and Energy Harvesters
14:20	<b>Prof. Kristofer S.J. Pister</b> Autonomous Microrobots
14:40	<b>Prof. Ming C. Wu</b> MEMS-Enabled LIDAR, Sensors, and Switches
15:00	<b>Prof. Dorian Liepmann</b> Hybrid Plastic MEMS Devices
15:20	<b>Prof. Richard M. White</b> Particulate-Matter Monitor with Speciation
15:40	<b>Break - Registration</b>
16:00	<b>Tutorial: Energy Harvesting</b> Prof. Liwei Lin and Prof. Richard M. White
17:30	<b>Reception and Mixer</b>

## Research Review: Plenaries and Posters

Student/Postdoc Plenaries and Posters with 45-second poster "elevator" pitches in plenaries.  
Closed Sessions- Members and Researchers

09 March 2017

Sibley Auditorium, Bechtel Engineering Center

<u>Time</u>	<u>Speaker, Event / Topic Information</u>
08:00	<b>Registration and Continental Breakfast</b>
09:00	<b>Dr. Mike Cable</b> Chair - Open Session 1
09:10	<b>Plenary 1: Hyun Sung Park</b> Solution-Processed Transparent Conductive Oxides(TCOs) and Oxide Semiconductors
09:25	<b>Plenary 2: Dr. Youmin Wang</b> MEMS-Actuated Grating-based Optical Phased Array for LIDAR
09:40	<b>Morning Research Overview</b> <b>45 Second Project Summaries by Individual Graduate/Postdoc Researchers</b> Faculty Groups: NGUYEN, PISTER, LEE, MABOUDIAN
10:10	<b>Morning Poster Session</b> Faculty Groups: NGUYEN, PISTER, LEE, MABOUDIAN
11:20	<b>Prof. Roya Maboudian</b> Chair - Open Session 2
11:25	<b>Plenary 3: Joshua Kay</b> Wearable Ultrasound System for Wireless Neural Recording
11:40	<b>Plenary 4: Tatsuo Hariyama</b> Low-Cost VCSEL FMCW LIDAR for High Accuracy Ranging
11:55	<b>Plenary 5: Ameya Rao</b> Ordered Hollow Metal Oxide Nanostructures for Miniaturized Gas Sensors
12:10	<b>Midday Research Overview</b> <b>45 Second Project Summaries by Individual Graduate/Postdoc Researchers</b> Faculty Groups: LIN, WU, LIEPMANN, BOSER
12:40	<b>Lunch</b> Hearst Memorial Mining Building, Moore Lobby
13:25	<b>Midday Poster Session</b> Faculty Groups: LIN, WU, LIEPMANN, BOSER
14:25	<b>Prof. Kris Pister</b> Chair - Open Session 3
14:30	<b>Plenary 6: Yuri Kusano</b> Bioinspired Spiral-Shaped Acoustic Resonators for MEMS Microphones
14:45	<b>Plenary 7: Filip Maksimovic</b> Radios Don't Need Crystals
15:00	<b>Plenary 8: Jalal Naghsh Nilchi</b> Sub-20nm Gap Capacitive-Transduced Disk Resonator
15:15	<b>Afternoon Research Overview</b> <b>45 Second Project Summaries by Individual Graduate/Postdoc Researchers</b> Faculty Groups: WHITE, HORSLEY, JAVEY, MAHARBIZ
15:45	<b>Afternoon Poster Session</b> Faculty Groups: WHITE, HORSLEY, JAVEY, MAHARBIZ
16:55	<b>Prof. Michel M. Maharbiz</b> Chair - Open Session 4
17:00	<b>Plenary 9: Daniel Drew</b> First Takeoff of a Flying Microrobot With No Moving Parts
17:15	<b>Plenary 10: Dr. James Bullock</b> Dopant-free Contacts for Si Solar Cells
17:30	<b>Plenary 11: Bochao Lu</b> Cytokine Fast Detection
17:45	<b>End Session, Voting Completion</b>
18:00	<b>Reception and Banquet</b> Hearst Memorial Mining Building, Moore Lobby

**Industrial Advisory Board (IAB - Members Only)**

Center Reports to Membership, and Membership Review of Center Operations, Process, Research Directions, and Content. All members are welcome; all Member Companies are encouraged (expected) to send at least one participant to this meeting. This meeting is closed to all but current members and faculty.

**10 March 2017**

**290 Hearst Memorial Mining Building (Enter via Moore Lobby)**

<b><u>Time</u></b>	<b><u>Speaker, Event / Topic Information</u></b>
08:30	<b>Continental Breakfast</b>
09:00	<b>Industrial Advisory Board Meeting</b>
12:00	<b>Lunch</b>
13:00	<b>Pre-Arranged Faculty or Project Meetings</b>