

# Fall 2017 BSAC Research Review & IAB - Agenda

## **Review of MEMS & Sensor Packaging Trends**

Dr. Philippe Jansen's packaging workshop.

**20 September 2017**

**Banatao Auditorium, Sutardja Dai Hall - 3rd Floor**

<u>Time</u>	<u>Speaker, Event / Topic Information</u>
09:00	<b>Pre-Arranged Faculty or Project Meetings</b>
13:15	<b>Registration</b>
14:00	<b>Dr. Mike Cable</b> Welcome and Opening Comments
14:15	<b>Dr. Philippe Jansen</b> Review of MEMS & Sensor Packaging Trends
16:00	<b>Break</b>

## **Member & Researcher Challenge**

Join us in the historic Senior Hall where teams of BSAC Researchers and Industrial Members will compete in a fun and creative engineering challenge.

**20 September 2017**

**Senior Hall**

<u>Time</u>	<u>Speaker, Event / Topic Information</u>
16:30	<b>Member &amp; Researcher Challenge</b>

## **Reception**

Casual outdoor reception for all attendees.

**20 September 2017**

**Women's Faculty Club**

<u>Time</u>	<u>Speaker, Event / Topic Information</u>
18:00	<b>Reception</b>

## Research Review: Plenaries and Posters

Closed Session: BSAC Members and Researchers Only  
Student/Postdoc Plenaries and Posters with 45-second "elevator" pitches in plenaries.

21 September 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: Daniel Contreras</b> A Platform for MEMS Hexapods
09:25	<b>Plenary 2: Kevin Han</b> Antenna-coupled 2D Material NanoLED for High Speed Optical Communication
09:40	<b>Morning Research Overview</b> <b>45 Second Project Summaries by Individual Graduate/Postdoc Researchers</b> WU, WHITE, PISTER, NGUYEN, CABLE
10:10	<b>Morning Poster Session</b> WU, WHITE, PISTER, NGUYEN, CABLE
11:20	<b>Prof. Ming C. Wu</b> Chair - Open Session 2
11:25	<b>Plenary 3: Travis Massey</b> Fabrication and Microassembly of a High-Density Carbon Fiber Neural Recording Array
11:40	<b>Plenary 4: Hossein Najafiaghdam</b> An Ultra-Thin Molecular Imaging Skin for Intraoperative Cancer Detection Using Time-Resolved CMOS Sensors
11:55	<b>Plenary 5: Hossain Fahad</b> Chemical Sensitive Field Effect Transistor (CS-FET)
12:10	<b>Midday Research Overview</b> <b>45 Second Project Summaries by Individual Graduate/Postdoc Researchers</b> MAHARBIZ, LEE, JAVEY, BOSER
12:40	<b>Lunch</b> Hearst Memorial Mining Building, Moore Lobby
13:25	<b>Midday Poster Session</b> MAHARBIZ, LEE, JAVEY, BOSER
14:25	<b>Prof. Clark T.-C. Nguyen</b> Chair - Open Session 3
14:30	<b>Plenary 6: Parsa Taheri-Tehrani</b> Subharmonic Synchronization in MEMS Oscillators
14:45	<b>Plenary 7: Qi Wang</b> Optimized PMUT Array Design
15:00	<b>Plenary 8: Alper Ozgurluk</b> Q-Boosting of Metal MEMS Resonators Via Localized Anneal-Induced Tensile Stress
15:15	<b>Afternoon Research Overview</b> <b>45 Second Project Summaries by Individual Graduate/Postdoc Researchers</b> MABOUDIAN, LIN, LIEPMANN, HORSLEY
15:45	<b>Afternoon Poster Session</b> MABOUDIAN, LIN, LIEPMANN, HORSLEY
16:55	<b>Prof. Roya Maboudian</b> Chair - Open Session 4
17:00	<b>Plenary 9: Steven DelaCruz</b> Silicon Carbide Passivated Electrode for Thermionic Energy Conversion
17:15	<b>Plenary 10: Emmeline Kao</b> Nanostructured Black Titania Arrays for Photoelectrochemical Applications
17:30	<b>Plenary 11: Brian Kilberg</b> MEMS Control Surfaces for Pico Air Vehicles
17:45	<b>End Session, Voting Completion</b>
17:46	<b>Reception &amp; Banquet</b> Hearst Memorial Mining Building, Moore Lobby

**Industrial Advisory Board Meeting (IAB)**

Closed meeting: Open to BSAC members and faculty only.  
Center report and member review of center operations, process, research directions, and content. Member companies should send at least one participant to this meeting.

**22 September 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>