Fall 2012 IAB & Research Review - Agenda

MIG Workshop: MEMS Product Development Challenges (Sweet Dreams and Nightmares)
19 September 2012
Sutardja Dai Hall Dado & Maria Banatao Auditorium UC Berkeley

Time	Speaker, Event / Topic Information
09:00	**Arrival & Sponsored Continental Breakfast**
10:00	**Karen Lightman Managing Director, MIG** Intro to Session
10:15	**Dr. David J. Monk Sensor Product Manager, Freescale** To Integrate or Not to Integrate: A Case Study on System-in-Package Integration for MEMS-based Products
10:45	**Angelo Assimakopoulos Director, New Business Development, Knowles Electronics** History and Challenges in bringing to market a MEMS Microphone with a FABLESS Business Model.
11:15	**Peter Himes VP Marketing, Silex** Foundry: MEMS Product Proliferation and Time to Market: A Foundry's Perspective on Process Standardization vs Full Customization
11:45	**Short Break**
12:00	**Panel: LESSONS LEARNED?** **Dr. Leslie Field (Moderator) Small Tech Consulting,** **Dr. Mark Zdeblick CTO Proteus Digital Health,** **Marcellino Gemelli, Senior Marketing Manager, Bosch Sensortec** **Dr. Christine Chihfan Ho CTO, Imprint Energy** **Dr. Octavian Florescu President, Silicon BioDevices**
12:45	**Box Lunch, SDH Atrium**

BSAC Faculty Research Investigations
19 September 2012
Sutardja Dai Hall Dado & Maria Banatao Auditorium UC Berkeley

Time	Speaker, Event / Topic Information
14:00	**John Huggins** Intro to Session
14:15	**David A. Horsley** A MEMS Electronic Compass
14:45	**Ali Javey** Electronic Skin: Detecting and Responding to Stimuli
15:15	**Albert P. Pisano** High-Resolution Direct Patterning of Nanoparticles and Polymers by a Template-Based Microfluidic Process
15:45	**Break**
16:15	**Kris Pister** Wireless Sensor Swarms & Microrobotics
16:45	**Michel M. Maharbiz** Flexible Resorbable Organic and Nanomaterial Therapeutic Systems (FRONTS)
17:15	**Ming C. Wu** Sense, Communicate, and Actuate by Light (Integrated Photonics)
17:45	**Mixing Reception: Sponsored by MEMS Industry Group and ClassOne Equipment, Inc.**

Research Review (Posters and Plenary)
20 September 2012
Sutardja Dai Hall Dado & Maria Banatao Auditorium UC Berkeley

Time	Speaker, Event / Topic Information
07:45	**Light Breakfast, Registration, Conference Materials**
08:30	**John Huggins** Open Session & Announcements
08:40	**Session I Chair: Richard S. Muller**
08:45	**Plenary 1: Tae Joon Seok** Chemical Sensor using Optical Antenna
09:00	**Plenary 2: Hadi Najar** CVD Diamond Resonators: Impact of Doping and Microstructure on Quality Factor
09:15	**Morning Faculty Research Review (Overviews)** Bernhard E. Boser; Ali Javey; Dorian Liepmann; Clark T.-C. Nguyen; Kris Pister; Richard M. White; Albert P. Pisano (QES)
10:15	**MORNING POSTER SESSION** Blum Hall
11:40	**Session II Chair: Michel M. Maharbiz**
11:45	**Plenary 3: Hui Fang** Monolayer Semiconductor Devices
12:00	**Plenary 4: Lingqi Wu** Hollow Stems for Higher Micromechanical Disk Resonator Quality Factor
12:15	**Plenary 5: Mitchell Kline** Circular Orbit Operating Mode for MEMS Gyroscopes
12:30	**LUNCH, Faculty Sidebars** Blum Hall
12:40	**Clark T.-C. Nguyen DARPA MiNaSIP Review & Lunch** 540 Cory Hall, DOP Center Conference Room
13:55	**Session III Chair: Bernhard E. Boser**
14:00	**Plenary 6: Kosuke Iwai** Integrated Finger-Powered Microfluidic Pumps for Point-of-Care Diagnostics
14:15	**Plenary 7: Matilda Yun-Ju Lai** Piezoelectric Energy Harvesting for Industrial Applications
14:30	**Afternoon Faculty Research Review (Overviews)** Luke P. Lee; Michel M. Maharbiz; Liwei Lin; Albert P. Pisano (HEaTS); David A. Horsley; Ming C. Wu
15:30	**AFTERNOON POSTER SESSION** Blum Hall
16:55	**Session IV Chair: Liwei Lin**
17:00	**Plenary 8: Chih-Ming Lin** Advances in Piezoelectric RF MEMS Lamb Wave Resonators
17:15	**Plenary 9: Late News I Dr. Jim Cheng** micro Loop Heat Pipes (m-LHP) - Passive solution to the thermal dilemma
17:25	**Plenary 10: Late News II TBD** TBD (Late News)
17:35	**END SESSION: John Huggins** Awards Banquet JMH
18:00	**PRE-BANQUET RECEPTION** The Faculty Club
18:45	**AWARDS BANQUET** The Faculty Club

BSAC Industrial Advisory Board
Closed meeting of BSAC member companies, faculty, and NSF to discuss operations and research directions of the Center.

21 September 2012
540 Cory Hall DOP Center Conference Room UC Berkeley

Time	Speaker, Event / Topic Information
07:45	**Light Breakfast**
08:20	**John Huggins** Open IAB, Present Agenda
08:30	**New Member Profiles**
09:00	**John Huggins** Discussion: New IAB Format
09:30	**Clark T.-C. Nguyen** Discussion: Collaboration Membership Level
10:00	**Albert P. Pisano** Paper Ratings/Research Directions
10:30	**Members' Closed Session**
11:30	**Callback of Co-Directors** Feedback to Center on Technical Directions and Operations
12:30	**Adjourn & Lunch**