Fall 2013 IAB & Research Review - Agenda

Research Review Posters & Plenary (CLOSED)
Members, Researchers, and By-Invitation Visitors with 12-month NDA

18	Se	otemb	er 2013
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Sutardja Dai Hall,	Ranatao	Auditorium	⊥ Rlum Hall
Sutaruja Dai Hali,	Danatau	Auditorium	T Diuin Han

Sutardja Dai Hall, Banatao Auditorium + Blum Hall		
<u>Time</u>	Speaker, Event / Topic Information	
08:00	Registration & Continental Breakfast Sutardja Dai Hall, Atrium	
1	John Huggins	
08:45	Open Research Review Welcome & Announcements	
08:50	Session I Chair: Ali Javey	
08:55	Plenary 1: Michael Lorek Standard CMOS-Based, Fully Integrated Stick-On Electricity Meters for Building Sub-Metering [BPN705]	
09:10	Plenary 2: Erh-Chia Yeh One-Step Point-of-Care Quantitative Nucleic Acid Detection based on Digital Plasma Separation [BPN679]	
09:25	Plenary 3: Alina Kozinda Carbon Nanotube Films for Energy Storage Applications [BPN606]	
09:40	Morning Research Overviews (4 Faculty Groups) Clark TC. Nguyen, Kris Pister, Ming C. Wu, Luke P. Lee	
10:20	MORNING POSTER SESSIONS (4 Groups) 100 and 110 Blum Hall	
11:20	Session II Chair: Bernhard E. Boser	
11:25	Plenary 4: Robert Schneider Capacitive-Piezoelectric Micromechanical Filters [BPN682]	
11:40	Plenary 5: Ryan Going Photo-MOSFET with Single Crystalline Germanium on SOI by Rapid Melt Growth [BPN609]	
11:55	Lunchtime Research Overviews (4 Faculty Groups) Liwei Lin, Bernhard E. Boser, Ali Javey, Dorian Liepmann Current BioMEMS and Microfluidics Research	
12:35	LUNCH 100 Blum Hall	
13:20	MIDDAY POSTER SESSION (4 Groups) 100 and 110 Blum Hall	
14:25	Session III Chair Ming C. Wu	
14:30	Plenary 6: Dr. Niels Quack 3D Imaging: Sub-mm Resolution Ranging using a Chip-scale MEMS FMCW LIDAR Source	
14:45	Plenary 7: Richard Przybyla Ultrasonic 3D Rangefinder on a Chip [BPN485]	
15:00	Plenary 8: Kevin Chen Macroscale Flexible Sensor System [BPN698]	
15:15	Afternoon Research Overviews (4 Faculty Groups) Michel M. Maharbiz, Albert P. Pisano, David A. Horsley, Richard M. White	
15:55	AFTERNOON POSTER SESSION (4 Groups) 100 and 110 Blum Hall	
16:55	SESSION IV Chair: Albert P. Pisano	
17:00	Plenary 9: Dr. Jim Cheng Nanoprinting of MEMS and Electron Devices [BPN394] [BPN658] [BPN693]	
17:15	Plenary 10: JoJo Chang Magnetic Microcoils: A Versatile Technology Platform for Microfluidics [BPN645]	
17:30	Plenary 11: Dr. Ayden Maralani SiC Semiconductor Devices and ICs as Gate/Base Drivers in Power Electronics [BPN638] [BPN644] [BPN614]	
17:45	END SESSION Voting Completion & Announcements	
18:15	Mixer and Awards Banquet Hearst Memorial Mining Building, Moore Lobby	

BSAC Industrial Advisory Board/ Executive Committee Closed Session, Members Only, to review research directions and Center operations

19 September 2013

Hearst Memorial Mining Building, Room 290

<u>Time</u>	Speaker, Event / Topic Information
07:45	Light Continental Breakfast 290 Hearst Memorial Mining Building

08:30

John Huggins Convene IAB: Topical Agenda

08:40

Richard Tsina
Plenary Topic Results & Voting Comments

ALL Discussion of Center 08:50

John Huggins Close IAB 10:30

BSAC Workshop: Piezo MEMS (CLOSED)Members, Researchers and By-Invitation Visitors with 12-month NDA

19 September 2013

Sutardja Dai Hall, Banatao Auditorium

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<u>Time</u> 11:00		Speaker, Event / Topic Information David A. Horsley Overview of Topic and Session
11:15		Clark TC. Nguyen Raising the Q's of Piezoelectric Resonators
11:45		Sayeef Salahuddin On the Possibility of Mechanically-Driven Ferromagnetic Resonance
12:15		Liwei Lin Electrospun FiberPiezo for Energy Harvesting
12:30	1	LUNCH
13:30		Michel M. Maharbiz / Dongjin Seo Neural Dust: Ultrasound to Enable Chronic Brain-Machine Interfaces
14:00		David A. Horsley Piezoelectric Micromachined Ultrasonic Transducers
14:30		Albert P. Pisano Aluminum Nitride/SiC Harsh Environment Sensor Cluster for Infrastructure Monitoring
15:00	1	Adjourn

MIG Workshop: Illuminating the Fog: MEMS and Sensors, Enablers for the Internet of Things

Sutardja Dai Hall, Banatao Auditorium (OPEN to all MIG members, Visitors, and BSAC Members)

<u>Time</u>	Speaker, Event / Topic Information
15:30	Karen Lightman Open Session
15:45	Dr. Flavio Bonomi Vice President, Advanced Architecture Research, CISCO The Cloud, Fog Computing, Wireless Networks and the Internet of Things
16:30	Al Heshmati Sr. Director, Software Systems, InvenSense Sensor Fusion of the Future
17:00	Break
17:15	Dave Rothenberg Marketing Director, Movea Data Fusion, Context Awareness and Indoor Navigation: A Marketer's Perspective on Sensor-Based Mobile Apps and Services
17:45	Mike Stanley Manager, Smart Sensor Fusion, Freescale Power Impacts on Sensor and Sensor Fusion Design
18:15	Conclusions and Wrap
18:30	Mixing Reception Kvamme Atrium, Sutardja Dai Hall
20:00	Adjourn