Spring 2014 IAB & Research Review - Agenda

Student Plenaries and Faculty Reports (Members Only)
Eleven Student Talks; 11 Faculty Research Group Reports and Poster Sessions

05 March 2014
UC Berkeley Art Museum and Pacific Film Archive; Also Bancroft Hotel

Time	Speaker, Event / Topic Information
08:00	**Registration & Continental Breakfast** **UC Berkeley Art Museum and Pacific Film Archive (BAM/PFA)**
08:30	**John Huggins** Open Research Review: BAM/PFA (Museum Theater)
08:40	**SESSION I Chair:** **Kristofer S.J. Pister**
08:45	**Plenary 1:** **Shao Ning Pei** Single-Cell Culture and Analysis on a Optoelectronic Tweezers Platform
09:00	**Plenary 2:** **Daniel Drew** Toward MEMS Ionocraft
09:15	**Plenary 3:** **Mo Li** Reducing the offset of Lorentz force magnetic sensors via current chopping
09:30	**Morning Research Overviews** **Bernhard E. Boser, Ming C. Wu, Dorian Liepmann, Liwei Lin, Roya Maboudian** 45-second project summaries by individual student/postdoc researchers
10:05	**MORNING POSTER SESSION (4 Groups): BANCROFT HOTEL**
11:15	**SESSION II Chair:** **Liwei Lin**
11:20	**Plenary 4:** **Kisik Koh** Magnetic Nanocomposites for On-chip RF Inductors
11:35	**Plenary 5:** **Dr. Jun Ho Son** Microfluidic Blood Plasma Separation for Point-of-Care Diagnostics
11:50	**Plenary 6:** **Dr. Jacobo Paredes** Functional Plastic Microstructures Fab'd with Electroplating and Hot Embossing
12:05	**Midday Research Overviews** **Richard M. White, Ali Javey, Luke P. Lee, John M. Huggins** 45-second project summaries by individual student/postdoc researchers
12:30	**LUNCH: Bancroft Hotel**
13:00	**MIDDAY POSTER SESSION: BANCROFT HOTEL**
14:10	**SESSION III Chair:** **Bernhard Boser**
14:15	**Plenary 7:** **Dr. Mitchell Kline** Low Power FM Gyroscopes
14:30	**Plenary 8:** **Yipeng Lu** High Frequency Piezoelectric Micromachined Ultrasonic Transducer (PMUT) Array
14:45	**Afternoon Research Overviews** **Kristofer S.J. Pister, Michel M. Maharbiz, David A. Horsley, Clark T.-C. Nguyen** 45-second project summaries by individual student/postdoc researchers
15:20	**AFTERNOON POSTER SESSION (4 Groups): BANCROFT HOTEL** Includes Posters of Affiliate Faculty
16:25	**SESSION IV Chair:** **Ali Javey**
16:30	**Plenary 9:** **Dr. Tristan Rocheleau** Micromechanical Frequency Divider
16:45	**Plenary 10:** **Dr. Corsin Battaglia** Carrier selective oxide contacts for photovoltaics and nanoelectronics.
17:00	**Plenary 11:** **Mehmet Akgul** High Rejection True RF Channel-Select Filter
17:15	**Plenary 12:** **Dr. Maysamreza Chamanzar** Ultra-compact High-density Neural Optrodes for Brain Activity Mapping
17:30	**END SESSION**
18:00	**RECEPTION AND BANQUET Hearst Memorial Mining Building, Moore Lobby** BUS WILL BE PROVIDED
20:30	**Adjourn**

Industrial Advisory Board IAB (Members Only)
06 March 2014
Bancroft Hotel

Time	Speaker, Event / Topic Information
08:15	**Light Continental Breakfast**
09:00	**Center Report & Introduction of New Members**
09:30	**Executive Session (Members Only)**
10:10	**Center Feedback Session**
11:00	**Lunch: Bancroft Hotel**

Technology Workshop: Frontiers in Photonics (Open Session)
06 March 2014
UC Berkeley Art Museum & Pacific Film Archive

Time	Speaker, Event / Topic Information
10:00	**Registration Materials Available** Optional: UC Berkeley Art Museum and Pacific Film Archive (Galleries Viewing)
12:00	**Prof. Ming C. Wu** Introduction
12:10	**Prof. Ming C. Wu** Silicon Photonic MEMS and Micro LIDAR
12:40	**Prof. Clark T.-C. Nguyen** Q-Boosted Optomechanical Oscillators
13:10	**Dr. John Heck Intel Corporation** Silicon Photonics: High-Speed Data and Beyond
13:40	**BREAK**
14:00	**Prof. Eli Yablonovitch** The Opto-Electronic Physics Which Just Broke the Efficiency Record in Solar Cells
14:30	**Prof. Connie Chang-Hasnain** Fast MEMS Tunable VCSELs with High-Contrast Grating Mirrors
15:00	**Prof. David A. Horsley** Optical Beamsteering Using a MEMS Optical Phased Array
15:30	**BREAK**
16:00	**Prof. Vladimir Stojanovic** Silicon photonics for VLSI systems
16:30	**Prof. Laura Waller** Computational 3D Phase Imaging
17:00	**Prof. Costas P. Grigoropoulos** Laser-Enabled Materials Processing and Directed Nanomanufacturing
17:30	**Dr. Eric Mounier** **Yole Developpement** Silicon Photonics, a Market Perspective
18:00	**Prof. Ming C. Wu** Conclusions/Adjourn
18:10	**RECEPTION: BAM/PFA Asian Gallery**