Fall 2017 Research Review
UC Berkeley
September 20-22

80+ Projects
9:10  **Technical Session I:**  2 Plenary Talks
9:40  **Morning Research Overview:**  WU, WHITE, PISTER, NGUYEN, CABLE
10:10  **Morning Poster Session**
11:20  **Technical Session II:**  3 Plenary Talks
12:10  **Midday Research Overview:**  MAHARBIZ, LEE, JAVEY, BOSER
12:40  **Lunch**  Hearst Memorial Mining Building, Moore Lobby
13:25  **Midday Poster Session**
14:25  **Technical Session III:**  3 Plenary Talks
15:15  **Afternoon Research Overview:**  MABOUDIAN, LIN, LIEPMANN, HORSLEY
15:45  **Afternoon Poster Session**
16:55  **Technical Session IV:**  3 Plenary Talks
18:00  **Reception and Banquet**  

Hearst Memorial Mining Building, Moore Lobby
Welcome to Research Review

Dr. Mike Cable
Executive Director
• Welcome to Research Review

Dr. Mike Cable

• Performance Limits of MEMS Hexapods

Daniel Contreras
Advisor: Prof. Kris Pister

• Antenna-coupled 2D Material NanoLED for High Speed Optical Communication

Kevin Han
Advisor: Prof. Ming C. Wu

TECHNICAL SESSION I @9:10
2 Plenary Talks and Morning Poster Previews
MORNING RESEARCH OVERVIEWS
45-SECOND RESEARCH SUMMARIES
BY INDIVIDUAL GRADUATE /POSTDOC RESEARCHERS

• Ming C. Wu Research Lab
• Richard M. White Research Lab
• Kristofer S.J. Pister Research Lab
• Clark T.-C. Nguyen Research Lab

@9:40
MORNING POSTERS

Garbarini Lounge
Directly Outside this Auditorium
10:10-11:20 (return on Gong)

Vote Early, Vote Often!

This room will be watched during poster sessions
“Spiral” = Project & Researcher Guide

- 11 Plenary Abstracts p12-p22
  (with page shown of corresponding two page project report.)

83 Two-page Project Reports
Organized by-Faculty in the same order as will be presented in Poster Overviews:

- Your UNIQUE voting code p3/p4
  and the back of your name tag
5=BEST VOTE for PAPERS
"Interest to Me” → Best Presentation Award
“Value to Organization” → Best Paper Award.

1st=Highest Rank for POSTERS
Best Poster = Poster listed on the most ballots
Ranking used only to break ties

You can re-vote On-Line all day,
only the last vote will be saved.

Or...PAPER BALLOT
Spiral pp 3-4
Collected in last session - Put in Ballot Box if you leave early
Paper votes will override electronic (if different)
• Fabrication and Microassembly of a High-Density Carbon Fiber Neural Recording Array

Travis Massey
Advisor: Prof. Michel M. Maharbiz

• An Ultra-Thin Molecular Imaging Skin for Intraoperative Cancer Detection Using Time-Resolved CMOS Sensors

Hossein Najafiaghdam
Advisor: Prof. Bernhard E. Boser

• Chemical Sensitive Field Effect Transistor (CS-FET)

Hossain Fahad
Advisor: Prof. Ali Javey

TECHNICAL SESSION II @11:20
3 Plenary Talks and Midday Poster Previews
MIDDAY RESEARCH OVERVIEWS
45-SECOND RESEARCH SUMMARIES
BY INDIVIDUAL GRADUATE/POSTDOC RESEARCHERS

• Michel M. Maharbiz Research Lab
• Luke P. Lee Research Lab
• Ali Javey Research Lab
• Bernhard E. Boser Research Lab

@12:10
Lunch Break

*Hearst Memorial Mining (Moore Lobby)*
12:40-13:25

Midday Posters

Sibley Auditorium
13:25-14:25

Please return promptly on GONG for Plenary Session III

*Vote Early, Vote Often!*

*This room will be monitored during lunch*
AFTERNOON RESEARCH OVERVIEWS

45-SECOND RESEARCH SUMMARIES
BY INDIVIDUAL GRADUATE / POSTDOC RESEARCHERS

• Roya Maboudian Research Lab
• Liwei Lin Research Lab
• Dorian Liepmann Research Lab
• David A. Horsley Research Lab

@15:15
Afternoon Posters

Garbarini Lounge
15:45-16:55 (return on Gong)

Vote Early, Vote Often!

This room will be watched during poster sessions
• Silicon Carbide Passivated Electrode for Thermionic Energy Conversion
  Steven DelaCruz
  Advisor: Prof. Roya Maboudian

• Nanostructured Arrays for Photoelectrochemical Applications
  Emmeline Kao
  Advisor: Prof. Liwei Lin

• MEMS Control Surfaces for Pico Air Vehicles
  Brian Kilberg
  Advisor: Prof. Kris Pister

TECHNICAL SESSION IV @16:55
3 Plenary Talks
•Take a few minutes to complete voting on-line and/or tear ballot from Spiral bsac.berkeley.edu/vote/

(we will record anything on your paper ballot as final).
IAB Meeting Friday Morning, 22 September
Same Parking

290 Hearst Memorial Mining Building (Enter via Moore Lobby)

8:30  Continental Breakfast
9:00  Center Report and Introduction of New Members
10:00 IAB Members Only Closed Session
11:00 Return of BSAC Directors & Executive Advisory Feedback
12:00 Lunch
13:00 Pre-Arranged Faculty or Project Meetings

See Reception Desk for Questions
Reception & Banquet

Hearst Memorial Mining Building HMMB
Moore Lobby