

The Berkeley Sensor & Actuator Center
presents

The BSAC Researcher Seminar Series

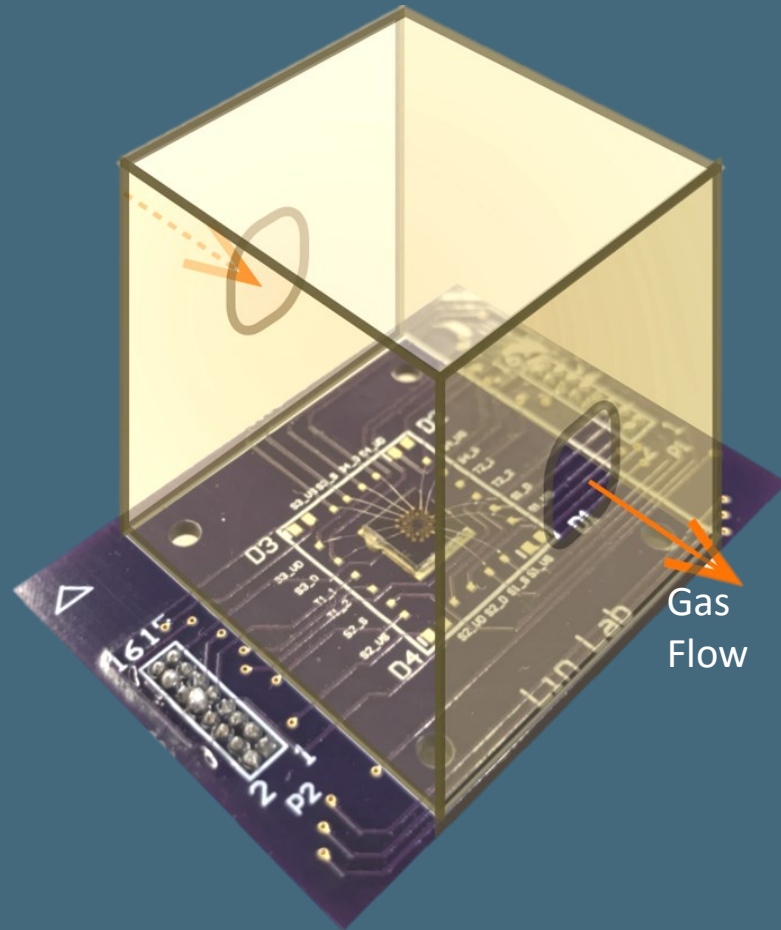
featuring

Yumeng Liu

of the

Liwei Lin Research Group

Gas Sensing at Room Temperature Using Graphene Transistors



December 12 2017

12:15 | 490 Cory Hall

Login to the BSAC website
to view the event live:

[http://www-
bsac.eecs.berkeley.edu/rsscst/](http://www-bsac.eecs.berkeley.edu/rsscst/)

The December BSAC Researcher Seminar Series will feature Yumeng Liu of BSAC Co-Director Prof. Liwei Lin's group.

In the contemporary age of sensing technologies for broad applications such as the Internet of Things, the capability to make low power, versatile, small form factor gas sensors could transform the fields of gas sensing systems into wearable/cellphone-based chemical interfaces for odor recognition, air quality, and personal health monitoring applications.

Recent advances in graphene and its manufacturing processes have led to new opportunities to design room temperature ultra low power gas sensors, yet key issues such as poor selectivity and long recovery time still impede its practical application.

The presentation will introduce our methods of addressing these two critical challenges: achieving gas selectivity on the pristine graphene surface and boosting the recovery speed of graphene at room temperature.

Yumeng joined BSAC and Prof. Lin's group as a graduate research student in 2012. His research on gas sensing applications using graphene FET at room temperature has earned several honors including the 2017 IEEE Transducers Best Paper Award and consecutive BSAC Best Poster and Best Paper awards as voted by BSAC Industrial Members.

THE BSAC RESEARCHER SEMINAR SERIES IS OPEN TO BSAC MEMBERS, FACULTY, AND RESEARCHERS ONLY.