



The BSAC Industrial Members, Researchers, Faculty and Directors, and the National Science Foundation I/UCRC Association thank and congratulate the following researchers for their outstanding work.

### **BSAC Best Paper and Poster Awards for Spring 2012**

More than 170 BSAC researchers presented their work in poster or plenary sessions at the Spring 2012 BSAC Research Review March 7-9.

More than 50 attending industrial members from 32 member organizations voted for the best presentations and posters, resulting in Best Paper and Best Poster awards (certificate and cash).

Links to *public abstracts* and *secured project reports* on the BSAC website are provided below.

#### **BSAC Best Paper Awards Spring 2012:**



**Ivan Dimov**  
 Advisor: Prof. Luke P. Lee  
[Integrated Amplification and Readout for Multiplexed Biomarker Detection](#) [BPN611]



**Jiyoung Chang**  
 Advisor Prof. Liwei Lin  
[Direct-write Multi-functional Nanofibers via Near-field Electrospinning](#) [BPN317]

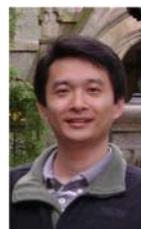


**Honorable Mention**  
**Thura Lin Naing**  
 Advisor Prof. Clark T.-C. Nguyen  
[3-GHz CVD Diamond Ring Resonator with Q > 40,000](#) [BPN630]

#### **BSAC Best Poster Awards Spring 2012**



**Richard J. Przybyla**  
 Advisor Bernhard E. Boser  
[Ultrasonic 3D Imaging Using Piezoelectric Micromachined Ultrasound](#) [BPN485]



**Shao Ning Pei**  
 Advisor Prof. Ming C. Wu  
[Light-Actuated Digital Microfluidics \(Optoelectrowetting\)](#) [BPN552]

## **BSAC Best Paper and Poster Awards for Fall 2011**

More than 170 BSAC researchers presented their work in poster or plenary sessions at the Fall 2011 BSAC Research Review September 21-23.

More than 70 attending industrial members from 32 member organizations voted for the best presentations and posters, resulting in Best Paper and Best Poster awards (certificate and cash).

Links to *public abstracts* and *secured project reports* on the BSAC website are provided below.

### **BSAC Best Paper Awards Fall 2011:**



**[Frank Myers](#)**  
Advisor: Prof. Luke P. Lee  
[An Integrated Microsystem for Electrophysiology-Activated Cell Sorting \(EPACS\)](#) [BPN512]



**[Tristan Rocheleau](#)**  
Advisor Prof. Clark T.-C. Nguyen  
[Capacitive-Gap Micromechanical Local Oscillator At GHz Frequencies](#) [BPN630]

### **BSAC Best Poster Awards Fall 2011**



**[Ernest Ting-Ta Yen](#)**  
Advisor Albert P. Pisano  
[HEaTS: AIN Narrowband RF Filters](#) [BPN369]



**[Karen E. Grutter](#)**  
Advisor Prof. Ming C. Wu  
[Optomechanical Oscillators and Silica-Based Bandwidth Tunable Filters](#) [BPN498]

## **BSAC Best Paper and Poster Awards for Spring 2011**

More than 150 BSAC researchers presented their work in poster or plenary sessions at the Spring 2011 BSAC Research Review March 9-11.

Nearly 60 attending industrial members from 32 member organizations voted for the best presentations and posters, resulting in Best Paper and Best Poster awards (certificate and cash).

Links to *public abstracts* and *secured project reports* on the BSAC website are provided below.

### **BSAC Best Paper Awards Spring 2011:**



**[Adrienne Higa](#)**  
Advisors: Prof. Liwei Lin, Song Li  
[Mechanical Regulation of Collective Cell Behavior via Microtopographic Substrates](#) [BPN403]



**[Mehmet Akgul](#)**  
Advisor Clark T.-C. Nguyen  
[Micromechanical RF Channelizer](#) [BPN434]

### **BSAC Best Poster Awards Spring 2011**



**[Li-Wen Hung](#)**  
Advisor Prof. Clark T.-C. Nguyen  
[Micromechanical Transmit Filter](#) [BPN358]



**[Lingqi Wu](#)**  
Advisor Prof. Clark T.-C. Nguyen  
[Temperature Stable Micromechanical Resonators and Filters](#) [BPN540]

## **BSAC Best Paper and Poster Awards for Fall 2010**

More than 160 BSAC researchers presented their work in poster or plenary sessions at the Fall 2010 BSAC Research Review September 15-17 2010.

Nearly 70 attending industrial members from 33 member organizations voted for the best presentations and posters, resulting in Best Paper and Best Poster awards (certificate and cash) given at the awards banquet in the Hotel Shattuck Plaza, UC Berkeley, September 16, 2010.

Links to *public abstracts* and *secured project reports* on the BSAC website are provided below.

**BSAC Best Paper Awards Fall 2010:**



**Mitchell Kline**  
Advisors: Prof. Bernhard E. Boser,  
Prof. Seth Sanders  
[Power Transfer Over a Capacitive Interface](#) [BPN555]



**Shao Ning Pei**  
Advisor Prof. Ming C. Wu  
[Light-Actuated Digital Microfluidics](#)  
[BPN552]

**BSAC Best Poster Awards Fall 2010**



**Yang Lin, Tommi Riekkinen**  
Advisor Prof. Clark T.-C. Nguyen  
[A Micromechanical Power Converter](#)  
[BPN433]



**Li-Wen Hung**  
Advisor Prof. Clark T.-C. Nguyen  
[Micromechanical Transmit Filter](#)  
[BPN358]

**BSAC Best Paper and Poster Awards for Spring 2010**

More than 150 BSAC researchers presented their work in poster or plenary sessions at the Spring 2010 BSAC Research Review March 10-12.

Nearly 65 attending industrial members from 37 member organizations voted for the best presentations and posters, resulting in Best Paper and Best Poster awards (certificate and cash) given at the awards banquet in the Faculty Club, UC Berkeley, March 11, 2010.

Links to *public abstracts* and *secured project reports* on the BSAC website are provided below.

**BSAC Best Paper Awards Spring 2010:**



**Yingqi Jiang**  
Advisor Prof. Liwei Lin  
[CNT-Based MEMS Supercapacitors](#)  
[BPN362]



**Ernest (Ting-Ta) Yen**  
Advisor Prof. Albert P. Pisano  
[Aluminum Nitride RF Components for Wireless Harsh Environment Telemetry](#) [BPN369]

**BSAC Best Poster Awards Spring 2010**



**Joanne Lo**  
Advisor Prof. Horsley  
[Large, Ordered 3D Nanocup Arrays for Plasmonic Applications](#) [BPN551]



**Thomas Watteyne**  
Advisor Prof. Pister  
[OpenWSN: Open-Source Standards-Based Protocol Stacks for Wireless Sensor Networks](#) [BPN477]

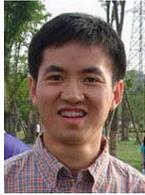
**BSAC Best Paper and Poster Awards for Fall 2009**

More than 150 BSAC researchers presented their work in poster or plenary sessions at the Fall 2009 BSAC research review September 16-18.

Nearly 60 attending industrial members from 39 member organizations voted for the best presentations and posters, resulting in Best Paper and Best Poster awards (certificate and cash) given at the awards banquet in the Faculty Club, UC Berkeley, September 17, 2009.

Links to *public abstracts* and *secured project reports* on the BSAC website are provided below.

**BSAC Best Paper Awards Fall 2009:**



**Zhiyong Fan**  
(advisor Prof. Ali Javey)  
**"Nanopillar-based Solar Cell"** [BPN501]



**Li-Wen Hung** (advisor Prof. Clark T.-C. Nguyen)  
**"Silicide-Induced Air Gaps for MEMS Structures"** [BPN358]



**Dr. Igor Paprotny** (advisor Prof. Richard M. White)  
**"SMobile Airborne Particulate Matter Monitor for Cellular Deployment"** [BPN392]

**BSAC Best Poster Awards Fall 2009**



**Jim C. Cheng** (advisor Prof. Albert P. Pisano)  
**"MEMS Poly/Nano: Biomimetic, Polymeric Transistor-based Biosensor Technology"** [BPN320]



**Yingqi Jiang** (advisor Prof. Liwei Lin)  
**"MEMS Supercapacitor"** [BPN362]

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