

## Student Poster Winners from ECS Las Vegas Meeting



ECS President **BILL BROWN** (center) presented certificates to the winners of the Student Poster Session competition at the ECS meeting in Las Vegas in October. From left to right are: **MARK HULSE** (from Maccor, sponsor of two awards), **VENKAT SUBRAMANIAN** (organizer), **JOSHUA P. MCCLURE** (award winner), **AYESHA MARIA HASHAMBHOY** (award winner), (President Brown), **RAJA S. MANNAM** (award winner), **MISATO TASHIRO** (award winner), **OANA LEONTE** (judge), and **VIMAL CHAITANYA** (organizer).

The ECS **Student Poster Session** in Las Vegas drew 106 entries from a dozen countries throughout the world. Presentations were made to the award winners on Tuesday in the crowded Exhibit Hall. The winners were:

- **Ayesha Maria Hashambhoy**, Carnegie Mellon University  
First Place, Electrochemistry, Poster #59, "Micro-wave Synthesis of  $\text{LiMPO}_4$ : Electrochemical Performance Dependence on Microwave Synthesis Conditions and Particle Size"
- **Misato Tashiro**, Tokyo University of Science  
First Place, Solid-State, Poster #19, "Crystal Structures and Dielectric and Piezoelectric Properties of  $\text{BaTiO}_3$  Prepared by the Polymerized Complex Method"
- **Joshua P. McClure**, North Carolina State University  
Second Place, Electrochemistry, Poster #71, "Non-Noble Metal Graphene as Oxygen Reduction Electro Catalyst in Portable Alkaline Fuel Cells"
- **Raja S. Mannam** and **Sarvesh Pasem**, Louisiana Tech University  
Second Place, Solid-State, Poster #64, "Thermoelectric Properties of Electrodeposited  $\text{BiSbTe}$  Nanowires and Thin Films"

Venkat R. Subramanian (Washington University, St. Louis), Chair of the Student Poster Session competition; and Co-Chairs, Kalpathy Sundaram (University of Central Florida, Orlando) and Vimal Chaitanya (New Mexico State University, Las Cruces) would like to thank the following judges and their corresponding Divisions for their important service as judges for the competition.

### Corrosion Division

Christopher Taylor (Los Alamos National Lab)

### Electronics and Photonics Division

Albert Baca (Sandia National Lab)

Andrew Hoff (University of South Florida)

### Electrodeposition Division

Elizabeth Podlaha (Northeastern University)

Despina Davis (Louisiana Tech)

John Stickney (University of Georgia)

### IE&EE Division

Cynthia Rice-York (Tennessee Tech)

Vijay Sethuraman (Brown University)

Vijay Ramani (Illinois Institute of Technology)

### Physical and Analytical Electrochemistry Division

Luke Haverhals (U.S. Naval Academy)

Matthew Foley (U.S. Naval Academy)

### High Temperature Materials Division

Fanglin (Frank) Chen (University of South Carolina)

Emiliana Fabbri (National Institute for Materials Science)

### Dielectric Science & Technology Division

Oana Leonte (Berkeley Polymer Technologies, Inc.)

Gautam Banerjee (Air Products and Chemicals, Inc.)

### Energy Technology Division

Aswin Karthik Manohar (University of Southern California)

The Chairs are open to suggestions to help obtain more judges from all the Divisions. The Chairs would also like to welcome more Co-Chairs, which requires commitment to attend all the ECS meetings. For more information, please contact the Chair, Venkat Subramanian at [mailto:vsubramanian@seas.wustl.edu](mailto:mailto:vsubramanian@seas.wustl.edu).

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## News from Student Chapters

### ECS Student Chapter Forms at University of South Carolina



Following the ECS Vancouver meeting, Xiao-dong Zhou, John Weidner, and Rui Zhang considered starting a student chapter at University of South Carolina. It only took about four months to enroll 23 students and for the Chapter to become active.

Prior to becoming an officially recognized ECS Student Chapter, an important event was scheduled to help bring students, faculty, and experts in electrochemistry together. A poster symposium was held on September 22, 2010 and featured Subhash C. Singhal, Battelle Fellow, Director of Fuel Cells Research at the Department of Energy's Pacific Northwest National Laboratory, and member of the National Academy of Engineering. Rui Zhang, Chapter President and founding student member introduced Dr. Singhal as guest lecturer.

Dr. Singhal discussed the future of energy, the critical issues facing a new generation of scientists, provided valuable

information on the benefits of ECS membership, and guidance for sustaining a successful Student Chapter. The presentation ended with attendee questions and refreshments. The event was a great success with over 50 attendees. A student poster session was held at the conclusion of the event and included 13 posters from students representing the departments of Chemical Engineering, Chemistry, and Mechanical Engineering. The poster session allowed students to display and critique their projects, and practice poster display for future ECS meetings.

The University of South Carolina student chapter was approved for formation by the ECS Individual Membership Committee on October 12, 2010, at the ECS meeting in Las Vegas, Nevada. The new Student Chapter will provide an important forum for students to share their knowledge and research work in electrochemistry.

### Tel Aviv University Student Chapter Tours Vulcan Batteries Factory



*Vulcan Batteries welcomed members of the Tel Aviv University Student Chapter.*



The tour included a look at the complete manufacturing process of a wet battery in Vulcan's factory.

The **ECS Tel Aviv University Student Chapter** organized a tour of Vulcan Batteries Ltd. in February 2010. Vulcan is known worldwide for the manufacturing and marketing of batteries and is located at Tefen Industrial Park in North Israel. Twenty chapter members participated in the tour, which started with introduction presentations by Meir Arnon, CEO, Abraham Kerem, COO and Shimon Hazan, Plant Manager. Chapter members were provided with lab coats and masks to protect against lead, before taking a tour of the production facility. The tour included viewing the manufacturing process of a lead

wet battery, the manufacturing and coating of the aluminum matrix framework until final packaging, and quality tests for different types of batteries. The tour ended in the research and development room where various experiments were conducted, giving Chapter members a better perspective on challenges facing the battery industry. Vulcan officials also held discussions with Chapter members on ways to increase current density in batteries. The tour resulted in an agreement between the Tel Aviv University Student Chapter and Vulcan to continue to meet in the future and discuss industry issues and possible solutions.

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## Looking for Student News

Send all correspondence to

65 South Main Street  
 Pennington, NJ 08534-2839, USA  
 Tel: 609.737.1902 Fax: 609.737.2743  
 E-mail: [interface@electrochem.org](mailto:interface@electrochem.org)

ECS takes an active interest in the affairs of its Student Members, and is always interested in hearing from you about your interests, activities, and accomplishments.

**ECS** [www.electrochem.org](http://www.electrochem.org)

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## Call for Nominations

For details on each award—including a list of requirements for award nominees, and in some cases, a downloadable application form—please go to the ECS website ([www.electrochem.org](http://www.electrochem.org)) and click on the “Awards” link. Awards are grouped in the following sub-categories: Society Awards, ECS Division Awards, Student Awards, and ECS Section Awards. Please see the individual award call for information about where nomination materials should be sent; or contact ECS headquarters.

Visit  
**[www.electrochem.org](http://www.electrochem.org)**  
and click on “Awards” link.



The **ECS SUMMER FELLOWSHIPS** were established in 1928 to assist students during the summer months in pursuit of work in the field of interest to ECS. The next fellowships will be presented in 2011.

Nominations and supporting documents should be sent to Vimal Chaitanya, New Mexico State University, VP for Research, MSC 3RES - Box 30001, Las Cruces NM 88033-8001, USA; e-mail: [vimalc@nmsu.edu](mailto:vimalc@nmsu.edu). **Materials are due by January 15, 2011.**



The **STUDENT RESEARCH AWARD OF THE BATTERY DIVISION** was established in 1962 to recognize promising young engineers and scientists in the field of electrochemical power sources and consists of a scroll, a prize of \$1,000, waiver for the meeting registration, travel assistance to the meeting if required, and membership in the Battery Division as long as a Society member. The next award will be presented at the ECS fall meeting in Boston, Massachusetts, October 9-14, 2011.

Nominations and supporting documents should be sent to Ratnakumar V. Bugga, Jet Propulsion Laboratory, NASA, Bldg. 277, Room 207, MS 722 207, 4800 Oak Grove Dr., Pasadena, CA 91109-8001, USA; e-mail: [ratnakumar.v.bugga@jpl.nasa.gov](mailto:ratnakumar.v.bugga@jpl.nasa.gov). **Materials are due by March 15, 2011.**

The **STUDENT AWARD OF THE CANADIAN SECTION** was established in 1987 for a student pursuing, at a Canadian University, an advanced degree in any area of science or engineering in which electrochemistry is the central consideration, and consists of an amount determined by the Executive Committee of the Canadian Section not to exceed \$1,500. The next award will be presented at an upcoming Section meeting.

Nominations and supporting documents should be sent to Sylvie Morin, York University, Department of Chemistry, CCB

124, 4700 Keele Street, Toronto, ON, Canada ; tel: 4167362100 (22303); e-mail: [smorin@yorku.ca](mailto:smorin@yorku.ca). **Materials are due by February 28, 2011.**

## Travel Grants

Several of the Society's Divisions offer travel assistance to students and young faculty members presenting papers at ECS meetings. For details about travel grants for 219<sup>th</sup> ECS Meeting in Boston, MA (October 9-14, 2011), please see the Boston Call for Papers in this issue of *Interface*; or visit the ECS website: [www.electrochem.org/student/travelgrants.htm](http://www.electrochem.org/student/travelgrants.htm). Please be sure to e-mail the student travel grant contact as each Division requires different materials for approval. **The deadline for submission for the fall 2011 travel grants is April 29, 2010.**

## Awarded Student Memberships Available

ECS Divisions are offering Awarded Student Memberships to qualified full-time students. To be eligible, students must be in their final two years of an undergraduate program or enrolled in a graduate program in science, engineering, or education (with a science or engineering degree). Postdoctoral students are not eligible. Awarded memberships are renewable for up to four years; applicants must reapply each year. Memberships include article pack access to the *Journal of The Electrochemical Society* online, *Electrochemical and Solid-State Letters* online, *ECS Transactions* online, and a subscription to *Interface*. To apply for an Awarded Student Membership, use the application form below or refer to the ECS website at: [www.electrochem.org/awards/student/student\\_awards.htm#a](http://www.electrochem.org/awards/student/student_awards.htm#a).