



## 2004 Student Research Award of the Battery Division

ADAM WEBER was born in 1976 in Fort Lauderdale, Florida. He studied chemical engineering at Tufts University where he earned BS and MS degrees in 1999. His master's thesis topic, under the guidance of Professor Maria Flytzani-Stephanopoulos, was on low-temperature carbon monoxide oxidation using gold supported on ceria catalysts. The work was supported by the EPA through a STAR graduate fellowship and through the Astronaut Scholarship Foundation.

Weber then spent a year on a Fulbright scholarship in Australia, where he worked at the University of New South Wales in Sydney, studying the feasibility of photocatalytic hollow-fiber membrane reactors for wastewater treatment. Next, he entered the PhD program at University of California, Berkeley, in chemical engineering under the guidance of Prof. John Newman. He once again earned an EPA STAR graduate fellowship for his dissertation work on the fundamental investigation of water management in polymer-electrolyte fuel cells.

For his dissertation work, he developed advanced models for flow in both the diffusion media and membrane of polymer-electrolyte fuel cells. The latter is important in modeling the effects of Schroeder's paradox. He is the author of over eight peer-reviewed publications in fuel cells, including a review article and book chapter. He has presented work at many different technical conferences as well as invited lectures at UTC Fuel Cells and the Norwegian University of Science and Technology in Trondheim, Norway. ■



## 2004 Morris Cohen Graduate Student Award of the Corrosion Division

QINGJIANG MENG earned his BS and MS degrees from Beijing University of Aeronautics and Astronautics, China in 1995 and 1998, respectively, and obtained his PhD from The Ohio State University in 2003. His PhD thesis work focused on the effect of Cu content on corrosion behavior and chromate conversion coating (CCC) protection of AA7xxx series Al alloys. The beneficial and detrimental roles of Cu content, as well as composition and morphology of CCCs formed on the matrix and second phase particles in AA7075-T6, were investigated using electrochemical methods and materials characterization techniques such as focused ion beam, transmission electron microscopy (TEM), high resolution TEM, scanning TEM with nano-EDS profiling, and X-ray photoelectron spectrometry.

Meng has nine publications in peer-reviewed journals and conference proceedings and has made seven scholarly presentations at international and national meetings. He was awarded the Marcel Pourbaix Student Poster Award in Corrosion Science from NACE at Corrosion 2002. He is currently working as an assistant research professor at The United States Naval Academy. His current research interests focus on the preparation and corrosion of nanostructured coatings and stress corrosion cracking. ■

## Call for Nominations

*For details on each award, including a list of requirements for award nominees, and in some cases, a downloadable nomination form, please go to the ECS website ([www.electrochem.org](http://www.electrochem.org)) and click on the "Awards" link in the upper right-hand corner. This will take you to a general page that will then lead to the individual awards. The awards are grouped in one of three categories: Society Awards, ECS Division Awards, and ECS Section Awards. Click on one of these sub-links to find the individual award. Please see each award call for information about where nomination materials should be sent; or you may contact the ECS headquarters office by using the contact information on the awards web page.*



## 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. The award consists of a scroll, a prize of \$1,000, and membership in the Battery Division as long as the winner is a Society member. The next award will be presented at the ECS fall meeting in Los Angeles, California, October 16-21, 2005.

Nominations and supporting documents should be sent to John Weidner, University of South Carolina, Department of Chemical Engineering, Swearingen Engineering Center, Columbia, SC 29208-0001, USA; tel. 803.777.3207, e-mail [weidner@enr.sc.edu](mailto:weidner@enr.sc.edu). Materials are due by **March 15, 2005**.



## The Morris Cohen Graduate Student Award of the Corrosion Division

was established in 1991 to recognize outstanding graduate research in the field of corrosion science and/or engineering. The award consists of a scroll, a prize of \$1,000, and travel assistance to the meeting where the award will be presented (up to \$1,000). The next award will be presented at the ECS fall meeting in Los Angeles, California, October 16-21, 2005.

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## Student News

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Nominations and supporting documents should be sent to Douglas C. Hansen, Princeton Applied Research, 801 S. Illinois Avenue, Oak Ridge, TN 37830-9101, USA; tel. 865.483.2141, e-mail doug.hansen@pari-online.com. Materials are due by **December 15, 2004**.

## Canadian Section Award Call

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. The award consists of a prize determined by the Executive

Committee of the Section not to exceed \$1,500. The next award will be presented at the fall Section meeting, which has not yet been scheduled.

Nominations and supporting documents should be sent to James J. Noel, University of Western Ontario, RR#1, Grand Bend, ON N0M 1T0, Canada; tel. 519.661.2111, e-mail jjnoel@julian.uwo.ca. Materials are due **February 28, 2005**.

## 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, engineer-

ing, 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 subscriptions to the *Journal of The Electrochemical Society* online, *Electrochemical and Solid-State Letters* online, and *Interface*.

To apply for an Awarded Student Membership, use the application form below or refer to the ECS website at [www.electrochem.org/student/student.htm](http://www.electrochem.org/student/student.htm).

## Student Travel Grants

Several of the Society's Divisions offer travel assistance to students presenting papers at Society meetings. These travel grants are intended to aid students in

# The Electrochemical Society Awarded Membership Application

The Divisions of the Society are offering Awarded Student Memberships to qualified full-time students. Eligible students must be in their final two years as undergraduates or be enrolled in a graduate program in science, engineering, or education (with a science or engineering degree). Awarded memberships are renewable for up to four years; applicants must reapply each year. Memberships include subscriptions to the *Journal* online, *Letters* online, and *Interface*.

Name: \_\_\_\_\_

Home Address: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_ E-mail: \_\_\_\_\_

School, Division, and Department: \_\_\_\_\_

School Address: \_\_\_\_\_

Undergraduate Year (U) or Graduate Year (G) - circle one: U3 U4 G1 G2 G3 G4 G5

Major Subject: \_\_\_\_\_ Grade point average \_\_\_\_\_ out of possible \_\_\_\_\_

Have you won this award before? - circle one: Yes No If yes, how many times? \_\_\_\_\_

Signature of Student: \_\_\_\_\_ Date: \_\_\_\_\_

Faculty member attesting to eligibility of student:

Name: \_\_\_\_\_ Department: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Divisions (please choose one):

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Battery                         | <input type="checkbox"/> Energy Technology                                     | <input type="checkbox"/> Luminescence & Display Materials      |
| <input type="checkbox"/> Corrosion                       | <input type="checkbox"/> Fullerenes, Nanotubes, and Carbon Nanostructures      | <input type="checkbox"/> Organic & Biological Electrochemistry |
| <input type="checkbox"/> Dielectric Science & Technology | <input type="checkbox"/> High Temperature Materials                            | <input type="checkbox"/> Physical Electrochemistry             |
| <input type="checkbox"/> Electrodeposition               | <input type="checkbox"/> Industrial Electrolysis & Electrochemical Engineering | <input type="checkbox"/> Sensor                                |
| <input type="checkbox"/> Electronics                     |  |  |

Send to: The Electrochemical Society, 65 South Main Street, Pennington, NJ 08534-2839, USA • Tel: 609.737.1902 • Fax: 609.737.2743

attending the meeting. For additional information and an online application form refer to the ECS website at [www.electrochem.org/student/travelgrants.htm](http://www.electrochem.org/student/travelgrants.htm). To be eligible for a grant, applicants must be scheduled to present a paper in a symposium or session sponsored or cosponsored by the Division to which the application is made. For a complete list of symposia and how to submit a paper, please visit [www.electrochem.org/meetings/207/cfp.pdf](http://www.electrochem.org/meetings/207/cfp.pdf). To apply for a travel grant, use the application form below.

**Application Requirements**—All applications for the 207th meeting in Québec City, Canada, May 15-20, 2005 must be received no later than January 3, 2005. To apply for travel support, please complete the Student Travel Grant form below, return it with a letter of recommendation from a faculty advisor, and a copy of the meeting abstract. Travel grants range from \$250-750 depending on the student's estimated expenses and the funds available from Divisions. ■

## Student News Wanted

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

Send all correspondence to:

### Interface

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)

## Travel Grant Application Québec City, Canada

The Society's Corrosion, Dielectric Science and Technology (DS&T), Electrodeposition, Electronics, Energy Technology, High Temperature Materials (HTM), Organic and Biological Electrochemistry (O&BE), Physical Electrochemistry, and Sensor Divisions offer travel grants to students presenting papers at the Society's next meeting, in Québec City, Canada, May 15-20, 2005. To apply, complete this application and send it along with a copy of your transcript and a letter from an involved faculty member attesting both to the quality of the student's work and financial needs, and a copy of the student's meeting abstract. For additional information and an online application form refer to the ECS website at [www.electrochem.org/student/travelgrants.htm](http://www.electrochem.org/student/travelgrants.htm) (*Preference for travel allocation grants will be given to ECS Student Members.*)

Meeting Site: \_\_\_\_\_

Name: \_\_\_\_\_

School Address: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone #: \_\_\_\_\_

Undergraduate Year (U) or Graduate Year (G) - circle one: U3 U4 G1 G2 G3 G4 G5

Major Subject: \_\_\_\_\_ Grade point average \_\_\_\_\_ out of possible \_\_\_\_\_

(Please provide letter of recommendation from your faculty advisor and a copy of your transcript)

Symposium Title (#): \_\_\_\_\_

Title of paper to be presented at meeting: \_\_\_\_\_

Are you an ECS Student Member of the Society?  yes  no

(If not, please additionally submit the Awarded Student Membership application.)

Estimate meeting expenditures: \$ \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Check Division under which award is being applied for: (*Applications made to multiple Divisions will be rejected*)

**Corrosion**—Send to: R. Scott Lillard, MST-6, MS G755, Los Alamos National Laboratory, Los Alamos, NM 87545, USA. E-mail: [lillard@lanl.gov](mailto:lillard@lanl.gov)

**DS&T**—Send to: H. Rathore, Internal Mail Stop AE1, B1640, 2070 Rte. 52, Hopewell Jct., NY, 12533, USA. E-mail: [rathore@us.ibm.com](mailto:rathore@us.ibm.com)

**Electrodeposition**—Send to: C. Bonhote, Advanced Head of Development and Nanostructures, Hitachi Global Storage Technologies, San Jose Research Center, 650 Harry Rd., C1-430, San Jose, CA 95120-6001 USA. E-mail: [Christian.Bonhote@hgst.com](mailto:Christian.Bonhote@hgst.com)

**Electronics**—Send to: Y. Kuo, Texas A&M, Chem. Eng. MS 3122, 335-0 Zachry Eng. Center, College Station, TX 77843-3122, USA. E-mail: [yuekuo@tamu.edu](mailto:yuekuo@tamu.edu)

**Energy Technology**—Send to: S. Calabrese Barton, Dept. of Chem. Engr., Columbia University, 500 W. 120th Street, Room 812, New York, NY 10027-6623, USA. E-mail: [scb2001@columbia.edu](mailto:scb2001@columbia.edu)

**HTM**—Send to: E. Traversa, Univ. di Roma "Tor Vergata," Via della Ricerca Scientifica, I-00133 Roma, Italy. E-mail: [traversa@uniroma2.it](mailto:traversa@uniroma2.it)

**O&BE**—Send to: D. Peters, Indiana University, Dept. of Chemistry, Bloomington, IN 47405, USA. E-mail: [peters@indiana.edu](mailto:peters@indiana.edu)

**Physical Electrochemistry**—Send to: P. Vanysek, Northern Illinois University, Dept. of Chemistry and Biochemistry, DeKalb, IL 60115, USA. E-mail: [pvanysek@niu.edu](mailto:pvanysek@niu.edu)

**Sensor**—Send to: P. Hesketh, Georgia Tech, Dept. of Mechanical Engineering, 225 North Ave NW, Atlanta, GA 30332-0405, USA. E-mail: [peter.hesketh@me.gatech.edu](mailto:peter.hesketh@me.gatech.edu)

**Applications for Travel Grants for the Québec City, Canada meeting must be received no later than January 3, 2005.**