

ECS & DOE Summer Research Fellowships

The Electrochemical Society is currently soliciting applications for the 2001 Society Summer Fellowships, which are given each year to assist a student in continuing his/her graduate work during the summer months, in a field of interest to the Society. Each year the Society gives up to three such fellowships, named in honor of prominent Society members Edward G. Weston, Colin Garfield Fink, Joseph W. Richards, and F. M. Becket. The amount given for each fellowship is \$4,000.

In order to be eligible for a Summer Fellowship, the individual must be a graduate student pursuing work between the degree of BS and PhD, in a college or university, who will continue his or her studies after the summer period. A previous holder of a Summer Fellowship is eligible for reappointment.

Qualified graduate students are invited to apply for these fellowships. Applicants must complete an application form and supply the following information: (1) a brief statement of educational objectives; (2) a brief statement of the thesis research problem, including objectives, work already accomplished, and work planned for the summer of 2001; (3) a transcript of undergraduate and graduate academic work; and (4) two letters of recommendation, one of which should be from the applicant's research advisor.

As it is the spirit of these awards that they be the sole sponsor of the summer graduate work, successful recipients of a fellowship must agree not to hold other appointments or other fellowships during the summer of 2001.

Application forms are available from the chairman of the Fellowship Award Subcommittee, to whom completed applications and letters of recommendation should be sent: Robin McCarley, Louisiana State University, Department of Chemistry, 232 Choppin Hall, Baton Rouge, LA 70803, tel: 504.388.3239, fax: 504.388.3458, e-mail: robin_mccarley_at_new_chem@chemserv.chem.lsu.edu.

The deadline for receipt of completed applications is January 1, 2001. Award winners will be announced on April 1, 2001.

General Society Student Poster Session Winners



ECS President Dale Hall (right in both photos) and award winners N. Beydokhti (left) and M. Ciobanu (right)—From among the 39 posters presented in the General Society Student Poster Session at the Toronto Meeting this past May, the following winners were chosen: Poster #39: "Minimization of Nonuniform Potential Distribution in the Thin-Layer Electrochemical Cells," by N. Beydokhti (University of Calgary), and Poster #25: "Stray Current Corrosion of Carbon Steel, Electroplated Nickel, and Electroless Nickel in an Alkaline Environment," by A. Pismenny (University of Toronto). Honorable Mentions included: Poster #24: "Miniaturized Reference Electrodes with Ag/Ag₂X Internal Reference Element Imbedded in a Hydrogel-Type Electrolyte," by M. Ciobanu and J. Wilburn (University of Memphis).

In addition, **subject to approval**, there will be five additional summer fellowships in 2001, each consisting of \$3,000, supported by the U.S. Department of Energy.

The purpose of these fellowships is to assist students in continuing graduate work during the summer months in such fields as energy-related aspects of electrochemical science and engineering, as well as solid-state science and engineering and shall involve the areas of batteries, fuel cells, photoelectrochemistry, photovoltaics, and electrochemical processes of materials aimed at reducing energy consumption.

Qualifications, submission of information, and deadlines for these fellowships are the same as outlined above.

Student Achievement Awards

H. H. Dow Memorial Student Achievement Award

The H. H. Dow Memorial Student Achievement Award was established by the Industrial Electrolysis and Electrochemical Engineering Division to recognize promising young engineers and scientists in the fields of electrochemical engineering and applied electrochemistry. This award was made

possible by a gift from the Dow Chemical Company Foundation and is intended to encourage the recipient to continue a career in electrochemical engineering or applied electrochemistry. The award honors the memory of H. H. Dow, a prolific inventor and tenacious businessman, and one of the principal organizers and a charter member of The Electrochemical Society.

This award, which consists of a certificate and a check in the amount of \$1,000 is made each year and is intended to be used to pay for expenses associated with the recipient's education or research project, tuition, books, equipment, or supplies.

To be eligible to receive this award, candidates must be enrolled in a college or university as a graduate student or have been accepted for enrollment. The application for the award must include: (1) transcripts of all post-secondary school academic work; (2) a description of the research project to be engaged in during the next year; (3) a statement which describes the relationship of the project to the field of electrochemical engineering or applied electrochemistry; and (4) a biography, resume, or curriculum vitae. The description and statement should be no longer than two double-spaced

typewritten pages. The application must also include a letter of recommendation from the applicant's research supervisor.

The recipient shall be notified by the chairman of the Industrial Electrolysis and Electrochemical Engineering Division and shall be requested, as a condition of the award, to submit to the Division chairman a written summary of research accomplished during the year in which he or she was an award recipient. The chairman will have the option of distributing this summary to members of the Division or submitting it to the editor of the *Journal* for consideration for publication.

IE&EE Student Achievement Award

A second award will be made by the IE&EE Division and the recipient will be selected from the applicants for the H. H. Dow Memorial Award. This award also consists of a certificate and a check in the amount of \$1,000. Again, the award is to be used to pay for expenses associated with the recipient's

education or research project. As with the H. H. Dow award, the recipient will be required to submit a written summary of the research accomplished during the award year to the chairman of the Division.

All application materials should be sent to Dr. Richard D. Varjian, The Dow Chemical Company, Central Research and Development, 1776 Building, Midland, MI 48674. tel: 517.636.6557; fax: 517.636.4917. Deadline for receipt of completed applications is September 15, 2000.

Awarded Student Memberships Available

The Society's **Corrosion, Dielectric Science and Technology, Electronics, High Temperature Materials, Industrial Electrolysis and Electrochemical Engineering, and Physical Electrochemistry 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. Awarded memberships begin on January 1 of the calendar year following receipt of the application. 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 on page 54. Deadline for submission is October 15, 2000.


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 attending the meeting. **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. To apply for a travel grant, use the application form on page 54.

Application Requirements—All applications for the 198th Meeting of The

Electrochemical Society, Inc., in Phoenix, Arizona, October 22-27, 2000, must be received no later than September 14, 2000. To apply for travel support, please complete the Student Travel Grant Application on page 54, return it with a letter of recommendation from a faculty advisor, and a copy of the meeting abstract. See individual listings for any additional requirements.


The following Divisions are currently offering grants:


 **Dielectric Science and Technology**—The Division is offering travel grants of up to \$600 each to students presenting papers at the ECS meeting in Phoenix in October 2000.

 **Electrodeposition**—In commemoration of Abner Brenner's pioneering contributions to the field of electrodeposition, the Division offers up to three \$750 travel grants per year to graduate students who present papers in symposia sponsored or cosponsored by the Division. In addition, the Division also offers up to two \$450 travel grants per year to students making a presentation of interest to the Division in the General Society Student Poster Session.


In addition to the basic Travel Grant application requirements, a recommendation letter from the student's graduate

research advisor is also required. Optional supporting documents such as article reprints, transcripts, or reports are also invited.


 **Electronics**—The Division is offering travel grants of up to \$600 each to students presenting papers in a symposium sponsored or cosponsored by the Electronics Division at the ECS meeting in Phoenix in October 2000.


 **Energy Technology**—The Division will be offering travel grants up to \$600 to students presenting a paper in a symposium sponsored or cosponsored by the Energy Technology Division and attending the ECS meeting in Phoenix in October 2000.

In addition to the basic Travel Grant application requirements, other supporting documents are also invited.

 **High Temperature Materials**—The Division will be offering travel grants up to \$500 to student members of the Division who are presenting papers at ECS meetings. These grants will be made on a first-come, first-served basis, with up to three awards made per meeting.

In addition to the basic Travel Grant application requirements, include a letter from a faculty advisor attesting to the student's financial needs.

 **Physical Electrochemistry**—The Division will support the travel of students to each ECS meeting. Eligible students must be a graduate student or upper level undergraduate and must be scheduled to present a talk at a symposium sponsored by the Physical Electrochemistry Division. The maximum amount given for travel support will be up to \$1,000 to be distributed among the awardees.

 **Sensor**—The Division will be offering travel grants of up to \$300 each to students presenting papers at the ECS meeting in Phoenix in October 2000. The student must be or become a member of ECS, be in a program of study toward an advanced degree at a university, and apply for funding at the time of submission of their abstract to ECS. ■

The Student Award of the Canadian Local Section

We are pleased to announce that the recipient of the 2000 Student Award of the Canadian Local Section is Byung Park of the Department of Electrical and Computer Engineering at the University of Waterloo.



The Corrosion, Dielectric Science and Technology (DS&T), Electronics, High Temperature Materials (HTM), Industrial Electrolysis and Electrochemical Engineering (IE&EE), and the Physical Electrochemistry Divisions 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 begin on January 1 of the calendar year following receipt of the application and include subscriptions to the *Journal Online*, *Letters Online*, and *Interface*. The application deadline is October 15, 2000.

AWARDED MEMBERSHIP APPLICATION

Name: _____

Home Address: _____

Date of Birth: _____

Phone #: _____

School, Division, and Department: _____

School Address: _____

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

Major Subject: _____

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: _____

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

Corrosion—Send to: G.S. Frankel, Dept. of Materials Science & Engineering, 477 Watts Hall, The Ohio State University, Columbus, OH 43210. E-mail: frankel.10@osu.edu.

DS&T—Send to: D. Misra, Dept. of Elec. and Computer Engr., NJIT, Newark, NJ 07102. E-mail: dmisra@megahertz.njit.edu.

Electronics—Send to: Arnold Reisman, NC State Univ., Department of ECE, Box 7911, Raleigh, NC 27695. E-mail: reisman@eos.ncsu.edu.

HTM—Send to: Mark D. Allendorf, Sandia National Labs, MS 9052, P. O. Box 969, Livermore, CA 94551-0969. E-mail: mdallen@sandia.gov.

IE&EE—Send to: James M. Fenton, Dept. of Chemical Engr., U-222, Rm. 208, Univ. of Connecticut, Storrs, CT 06269-3139. E-mail: jmfent@eng2.uconn.edu.

Physical Electrochemistry—Send to: Viola Birss, Dept. of Chem., University of Calgary, Calgary, AB, Canada, T2N 1N4. E-mail: birss@acs.ucalgary.ca.

The Society's Dielectric Science and Technology (DS&T), Electrodeposition, Electronics, Energy Technology, High Temperature Materials (HTM), and Physical Electrochemistry Divisions offer travel grants to students presenting papers at Society meetings. For the individual rules of each Division's grant program, please see the Student Travel Grant announcements on the preceding pages of this issue of *Interface*. **To apply, complete this application and send it along with 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.** (Preference for travel allocation grants will be given to ECS student members.)

STUDENT TRAVEL GRANT APPLICATION

1. Meeting Site: _____

2. Name: _____

3. School Address: _____

3. Major Subject: _____

4. Undergraduate grade point average: _____

Out of possible: _____

Graduate grade point average: _____

Out of possible: _____

5. Division Symposium Title: _____

6. Title of Paper to be Presented at Meeting: _____

7. Are you a Student Member of the Society? _____

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

8. Estimate meeting expenditures: \$ _____

9. Signature: _____

Date: _____

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

DS&T—Send to: D. Misra, Dept. of Elec. and Computer Engr., NJIT, Newark, NJ 07102. E-mail: dmisra@megahertz.njit.edu.

Electrodeposition—Send to: J. Stickney, Dept. of Chemistry, Univ. of Georgia, Athens, GA 30602. E-mail: stickney@sunchem.chem.uga.edu.

Electronics—Send to: Arnold Reisman, NC State Univ., Department of ECE, Box 7911, Raleigh, NC 27695. E-mail: reisman@eos.ncsu.edu.

Energy Technology—Send to: J. Prakash, Dept. of Chemistry & Environmental Engr., Illinois Institute of Technology, 10 West 33rd Street, Chicago, IL 60616. E-mail: prakash@charlie.cns.iit.edu.

HTM—Send to: F. Garzon, Los Alamos National Lab, MS 0429, Los Alamos, NM 87545. E-mail: garzon@lanl.gov.

Physical Electrochemistry—Send to: Viola Birss, Dept. of Chem., University of Calgary, Calgary, AB, Canada, T2N 1N4. E-mail: birss@acs.ucalgary.ca.

Sensor—Send to: Peter Hesketh, George W. Woodruff School of Mech. Eng., Georgia Inst. of Technology, Atlanta, 801 Ferst Dr., GA 30332. E-mail: peter.hesketh@me.gatech.edu.

Application and faculty letter must be received no later than one month prior the meeting for which a travel grant is sought.