



The **Corrosion, Electronics, High Temperature Materials, and Industrial Electrolysis and Electrochemical Engineering** 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** and **Interface**. The application deadline is October 15, 1998.

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: Dr. G.S. Frankel, Dept. of Materials Science & Engineering, 477 Watts Hall, The Ohio State University, Columbus, OH 43210

Electronics—Send to: Dr. Arnold Reisman, NC State Univ., Department of ECE, Box 7911, Raleigh, NC 27695

High Temperature Materials—Send to: Dr. Mark D. Allendorf, Sandia National Labs, MS 9052, P. O. Box 969, Livermore, CA 94551-0969

Industrial Electrolysis & Electrochemical Engineering—Send to: Dr. James M. Fenton, Dept. of Chemical Engr., U-222, Rm. 208, Univ. of Connecticut, Storrs, CT 06269-3139

The Society's **Electrodeposition, Electronics, High Temperature Materials, 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 facing page 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)

Electrodeposition—Send to: M. Datta, IBM Corp., T. J. Watson Research Center, Rm 40-025, P.O. Box 218, Yorktown Heights, NY 10598-0218

Electronics—Send to: Dr. Arnold Reisman, NC State Univ., Department of ECE, Box 7911, Raleigh, NC 27695

High Temperature Materials—Send to: F. Garzon, Los Alamos National Lab, MS 0429, Los Alamos, NM 87545

Physical Electrochemistry—Send to: J. Leddy, Dept. of Chemistry, University of Iowa, Iowa City, IA 52242

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

Awarded Memberships Available

The Society's Corrosion, Electronics, High Temperature Materials, and Industrial Electrolysis and Electrochemical Engineering 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 both the *Journal of The Electrochemical Society* and *Interface*.

To apply for an Awarded Student Membership, use the application form on the facing page. Deadline for submission is October 15, 1998.

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 the facing page.

Applications for the Boston Meeting in November must be received no later than one month prior to the start of the Meeting. The following Divisions are currently offering grants:



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.

Interested students should apply using the Student Travel Grant Application form on the facing page. A recommendation letter from the student's

graduate research advisor and a copy of the student's Meeting abstract are also required. Optional supporting documents such as article reprints, transcripts, or reports are also invited.



Electronics—The Electronics Division is offering travel grants of up to \$600 each to students presenting papers at the Society's 194th Meeting in Boston, November 1-7, 1998. Eligible students must be scheduled to present a paper in a symposium sponsored or cosponsored by the Electronics Division.

In addition to the Student Travel Grant Application on the facing page, applicants must also submit a copy of their Meeting abstract and a letter of recommendation from their faculty advisor.



High Temperature Materials—Travel grants of up to \$500 are offered 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. To apply for an award, complete the Student Travel Grant Application form on the facing page, and include a letter from a faculty advisor attesting to the student's financial needs, and a copy of the Meeting abstract.

General Society Student Poster Session Winners

From among the 21 posters presented in the General Society Student Poster Session at the San Diego Meeting this past May, the following winners were chosen:

- "The Effect of Polyethner Attachment on the Self-Exchange Barriers of Metal Tris(bipyridine) Molten Salt," (Poster #21) by E. Dickinson, H. Masui, M. E. Williams, and R. W. Murray (University of North Carolina).
- "Plasma Process Modeling for Thin-Film Deposition," (Poster #3) by K. Bera, B. Farouk, and Y. Lee (Drexel University).

Honorable Mentions included:

- "Spectrochemistry of Charge Transfer at Liquid/Liquid Interfaces," (Poster #14) by Z. Ding, D. Firmin, P. F. Brevet, and H. Girault (Swiss Federal Institute of Technology).
- "Advances in Modeling the SRET" (Poster #1) by S. Lyon and S. Turgose (UMIST).



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.

To apply for travel support, please complete the Student Travel Grant Application on the facing page, return it with a letter of recommendation from a faculty advisor, and a copy of the Meeting abstract.

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 recipients 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. Phone: (517) 636-6557; Fax: (517) 636-4917. Deadline for receipt of completed applications is September 15, 1998.

ECS & DOE Summer Research Fellowships

The Electrochemical Society is currently soliciting applications for the 1999 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, and Joseph W. Richards. The amount given for each Fellowship is \$3,000.

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 in the United States or Canada, 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 1999; (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 1999.

Application forms are available from the Chairman of the Fellowship Award Subcommittee, to whom completed applications and letters of recommendation should be sent: Johna Leddy, Dept. of Chemistry, Univ. of Iowa, Iowa City, IA 52242, Ph: (319) 335-1720, Fax: (319) 335-1270, E-mail: jleddy@blue.weeg.uiowa.edu.

The deadline for receipt of completed applications is January 1, 1999. Award winners will be announced on April 1, 1999.

In addition, subject to approval, there will be five additional summer fellowships in 1999, each consisting of \$3,000, supported by the US 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, photo-electrochemistry, 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.

F. M. Becket Memorial Award

Nominations are now being accepted for the 1999 F. M. Becket Memorial Award. This Award commemorates F. M. Becket, a man of great research and administrative ability, and a former

(continued on next page)

President of The Electrochemical Society, whose accomplishments in science and industry were outstanding. The stipend, valued at \$3,500, provides a grant-in-aid toward a summer's (at least two months) research and study overseas in the laboratory of a recognized research institute or institution of higher learning, selected from the approved list maintained by the F. M. Becket Memorial Award Committee.

The objectives of this Award are to stimulate and encourage education and participation in the fields of electrochemical science and technology concerned with specialty materials and processes as follows: (1) materials such as refractory metals and compounds, intermetallics, graphite, fused salts, and rare earth metals; (2) equipment for the utilization of electrical energy in materials synthesis; (3) processes using arcs, vacua, plasmas, and electron and ion beams; and (4) high temperature kinetics and thermodynamic and related phenomena, such as melting, vaporization, reactions, sintering, diffusion or oxidation occurring at high temperatures, high pressures, or vacua

involving high-temperature materials.

To be eligible for the Award, the applicant must qualify in one of the two following categories. He or she must either: (1) be a graduating senior of demonstrated ability, regularly enrolled in any recognized college, university, or institute of technology in the continental United States or Canada, who intends to seek an advanced degree; or (2) be a graduate student, similarly enrolled, who is seeking an advanced degree.

The Award shall be presented on the basis of the following material: (1) a complete transcript of the student's academic record; (2) two copies of a letter, over the signature of the head of the College or Department in which the student is enrolled, describing briefly his or her academic work, campus activities, and presenting an estimate of his or her abilities; and (3) two copies of a letter, over the student's signature, containing a brief biographical sketch, a detailed description of the nature and extent of his or her academic work, particularly as it may relate to the field of the Award, and an outline of future plans. The stu-

dent's letter should also contain a statement signifying willingness to fulfill the further requirements of the Award as described in the Award Rules. The student shall indicate, from the list provided by the Award Committee, a choice of a place of residence under the Award.

Application forms are available from Marc Cahay, ECECS Dept., 832 Rhodes Hall, ML 30, Univ. of Cincinnati, Cincinnati, OH 45221-0030, Phone: (513) 556-4754, Fax: (513) 556-7326, E-mail: mcahay@ucuinx.san.uc.edu.

The deadline for receipt of completed applications is January 1, 1999. The Award winner will be announced on March 30, 1999. ■