



Paul Kohl Honored for Service as JES Editor

At the ECS meeting in Washington, DC, **PAUL A. KOHL**, Editor of the *Journal of The Electrochemical Society* (JES), was honored for his many contributions to JES, as well as to other ECS publications. Kohl, JES Editor since 1995, will finish 12 years of service to JES this December.

Dr. Kohl is the Hercules, Inc./Thomas L. Gossage Chair and Regents' Professor in the School of Chemical and Biomolecular Engineering at the Georgia Institute of Technology. He is also the Director of the Interconnect Focus Center at Georgia Tech.

Joining ECS in 1975, Kohl had an auspicious start with the organization, winning the 1977 Edward G. Weston Summer Fellowship. In 1992, he was named the first editor of *Interface*. Kohl took the prototype and brought a number of fresh ideas to the magazine, including "Tech Highlights." He held the post until 1995, when he was named Editor of JES; Jan Talbot succeeded Kohl as editor of *Interface*.

During his JES tenure, Kohl significantly improved the reputation of JES, which led to a 36% increase in the number of published manuscripts, from 712 published manuscripts in 1995 to 968 published last year. Kohl guided JES through a complete transition from an exclusively paper model to a completely online publication. This was a complex and difficult process, and ECS would not have been successful without Paul Kohl as editor.

In 1997, while still editor of JES, Kohl led the Society through the development of the Society's second technical journal, *Electrochemical and Solid-State Letters* (ESL), which officially launched in July 1998. ESL was the first rapid-publication journal published in the field of electrochemistry and solid-state science and technology, and incorporated many innovations in article-at-a-time publication methods and online manuscript submission and reviewing. In 2003, with ESL fully underway, Kohl completed his term there as editor, and Dennis Hess was selected as the new editor.

Dr. Kohl has received other ECS honors, including the Carl Wagner Award in 2001, in recognition of his mid-career achievement and excellence in research areas of interest of the Society, and his significant contributions in the teaching or guidance of students or colleagues in education, industry, and government. He was named an ECS Fellow in 2002; and Dr. Kohl will receive the DS&T Division's Thomas J. Callinan Award in 2008.

At a special reception in his honor at the DC meeting, many friends and colleagues gathered to recognize Kohl's outstanding work as JES editor for the past 12 years, and to say thank you for the tremendous job he has done for ECS. ECS President Barry MacDougall, noted that ECS "would be remiss if we did not include our thanks for Paul's long and dynamic services in the 'trenches' for all three of our serial publications. As a professional society, ECS is first and foremost a steward of electrochemical and solid-state science and technology, and responsible for the published body of knowledge in our science. In the past two decades, Paul has been our most influential leader in one of our most important responsibilities."

ECS sincerely thanks Paul Kohl for his dedication to the mission of the Society, which is the dissemination of knowledge in the field of electrochemistry and solid-state science and technology, and for his considerable contributions to the success of ECS.

ECS and ISE Sign Cooperation Agreement

"The purpose for which [ECS] has been formed is the advancement of the theory and practice of electrochemistry, electrometallurgy, electrothermics, electronics, and allied subjects. Among the means to this end shall be ... cooperation with ... other scientific and technical societies."

—ECS Constitution, Article I, Section 2

A number of ECS members spent a pleasant and productive time in the Rocky Mountains of Canada in Banff, Alberta, attending the annual meeting of the International Society of Electrochemistry (ISE), along with ISE members and members of other societies.

The Thursday noon General Assembly gave many an unusual glimpse of ISE activity. In a very nice ceremony, ECS President Barry MacDougall and ISE President Christopher M. A. Brett signed a Cooperation Agreement between the two societies. Both ECS and ISE have electrochemistry in their names and they both serve the interests of academic, government, and industrial communities that find value and interest in all issues electrochemical. Many scientists see the value in having membership in one or the other society and many find value in joining both; many people are members of many additional societies, interest groups, cooperatives, and clubs.

From the viewpoint of an electrochemist, who happens to be a member of several societies, it is natural to expect cooperation between several societies. ECS has worked with many other international societies, beginning with its birth in 1902 when it developed a cooperation agreement with the Deutsche Bunsen Gesellschaft. ECS has continued its cooperative efforts, most notably in the creation of the PRiME meeting (Pacific Rim Meeting on Electrochemistry and Solid-State; see www.electrochem.org/meetings/biannual/214/214.htm), a joint international meeting with The Electrochemical Society of Japan and five additional technical co-sponsors. ECS and ISE have worked together in the past, including two successful joint meetings: Paris, France in 1997 and San Francisco, California in 2001.

The major points of the agreement are as follows. Both societies will exchange information, in particular with regard to future activities, to avoid overlapping meeting dates. To this end, both societies will provide places for announcement of meetings on their websites, advertising meetings of the other society; and at its meetings, each



ECS and ISE recently signed a Cooperation Agreement to "intensify their contacts and their co-operation in the future." ECS President **BARRY MACDOUGALL** (left) and ISE President **CHRISTOPHER BRETT** signed the agreement at the recent ISE meeting in Banff, Canada.

Photo courtesy of ISE.

society will provide a table for the other society to post information about membership and society publications. Sponsorship of meetings, the third item of the agreement, will allow meeting organizers to request co-sponsorship from ISE or ECS Divisions or Sections. Cooperation on the Internet is also anchored in the agreement. The Internet cooperation aspect is already visible on both the ECS and ISE websites, where information about this agreement, as well as a listing of meetings of both societies, can be found.

This agreement will benefit members of the two societies and the electrochemical community at large, all with a true loyalty to the science

and to providing all possible outlets for disseminating results. A focus on education was the primary reason why representatives of both societies started to talk. Initial involvement of Mark Orazem and Dan Scherson on behalf of ECS has to be acknowledged; and at the meeting, Johna Leddy and John Stickney also participated, representing the ECS Education Committee. The present cooperation agreement specifically supports establishment of a joint task force open to other major electrochemical societies. The assignment of this task force will be to identify actions by which both societies may serve the electrochemical community.

Without young women and men, graduating from colleges and actively engaging in electrochemical science, the heritage of the volumes of accomplishment will go nowhere. The difficulty of the task of engaging the new generation in science, built on a tradition of previous research, is not new nor even more pressing than it was a generation ago. There has never been an easy recipe for dealing with the changing environment, challenges, and opportunities, and there is not one now; but with the help of this task force, we will create our own, new recipe. Thus, although we need to learn from the successful ingredients of ECS and ISE to preserve our rich heritage, we will look forward even more carefully to deal with the new challenges. We are looking forward to the opportunities this cooperation agreement is offering and to the new creations it will enable. ■

Thanks to Petr Vanýsek, ECS Secretary, who contributed this report.



XIAO-DONG ZHOU (left) of Pacific Northwest National Laboratory received the 2007 J. Bruce Wagner, Jr. Award of the ECS High Temperature Materials Division from HTM Chair **ERIC WACHSMAN** (left) at the ECS meeting in Washington, DC.

Photo by Eddie Arossi Photography, Washington, DC.



DS&T Division Announces Student Travel Grants Offering

The **ECS DIELECTRIC SCIENCE & TECHNOLOGY DIVISION** has announced that it will now offer up to two \$500 **Student Travel Grants** for each ECS meeting to students presenting papers in symposia or sessions sponsored or co-sponsored by the DS&T Division. For additional information, Please visit the ECS website (http://www.electrochem.org/students/travel_grants/dst_tg.htm). To qualify, the student travel grant form, the abstract, and a letter from the student's academic advisor (via e-mail attachment) must be submitted by January 31 for the spring meetings and by July 31 for the fall meetings. Submit the application materials to the DS&T award chair, H. S. Rathore, IBM, Internal Mail Stop 20A, B/330C, 2070 Rte. 52, Hopewell Junction, NY 12533, USA, 845.892.2905, e-mail: rathore@us.ibm.com.



New Alerting Services for ECS Digital Library

ECS is pleased to announce that it is now offering free Table of Contents and RSS-based alerts for its journals. ECS content alerts are the best way to stay up to date with new developments in the fields of electrochemistry and solid-state science.

Table of Contents (TOC) alerts are delivered by e-mail as soon as each new issue of the *Journal of The Electrochemical Society* (JES) and/or *Electrochemical and Solid-State Letters* (ESL) is published online. Packed with information and links, the e-mail alerts allow users to easily browse the latest content without delay. You may select to receive TOC alerts in either one of two formats: HTML (with links) or ASCII (plain text). Alerts in HTML format contain links to online abstracts, full text articles, and an online ordering system if you are not a subscriber of the publication. TOC alerts are delivered directly to the e-mail address you specify. (Note that the e-mail address you enter will not be sold or otherwise distributed to any other individual or entity.)

RSS ("Really Simple Syndication") is a free, easy, and automatic way to be informed when new articles in a chosen technical interest area are published. Choose from: All Topics; Batteries and Energy Storage; Fuel Cells and Energy Conversion; Corrosion, Passivation, and Anodic Films; Electrochemical/Chemical Deposition and Etching; Electrochemical Synthesis and Engineering; Physical and Analytical Electrochemistry; Dielectric Science and Materials; Semiconductor Devices, Materials, and Processing; Sensors and Displays: Principles, Materials, and Processing; Nanostructured Materials, Carbon Nanotubes, and Fullerenes; Interdisciplinary Topics; and Reviews. RSS feeds provide titles, authors, citation data, and best of all, links for the newly published articles. RSS feeds can be read with freely-available software. If you are new to RSS feeds, see this basic article in Wikipedia: <http://en.wikipedia.org/wiki/RSS>.

So, have the latest articles always at your fingertips; these new services are fast and free. To learn more, or to sign up sign up now, visit the ECS Digital Library at <http://www.ecsdl.org/>.

SPOTLIGHT on the IE&EE Division



The winning team from the IE&EE Outreach program in Washington, DC; pictured kneeling in front (from left to right) are: students Kenneth Clayton, Stanley Johnson, and Carlton Baileyare. Standing are (from left to right): student Kwalkypreme Mitchell; IE&EE members Venkat Subramanian and Vijay Ramani; facilitator William Corley; student Donald Terrell; IE&EE Chair Dennie Mah; facilitators Christopher "Doc" Grimm and Javit Drake; and students Jacob Patterson, Antonio Buic, and Carlis Jackson.

Outreach Program

The **INDUSTRIAL ELECTROCHEMISTRY AND ELECTROCHEMICAL ENGINEERING (IE&EE) DIVISION** successfully completed its third volunteer Outreach Program during the recent Washington, DC fall ECS meeting. **Venkat Subramanian**, Tennessee Technological University; **Vijay Ramani** and graduate student **Satheesh Sambandam**, both of Illinois Institute of Technology (IIT); **Javit Drake**, Gillette Company; and **Dennie Mah**, DuPont Company and IE&EE Division Chair, participated in the program. The event took place at the F. W. Ballou High School, a local District of Columbia public school, under the guidance of **William Corley** and **Christopher "Doc" Grimm**, both science teachers. Thirty students participated in a fuel cell car competition designed to introduce the youth to new electrochemical technology and its potential future impact on our everyday life by employing active learning techniques.

Awards

The IE&EE Division is pleased to announce that **SUNIL ROY** (University of Florida) was selected to receive the **2008 H. H. DOW MEMORIAL STUDENT ACHIEVEMENT AWARD** and that **VINTEN DIWAKAR** (Tennessee Technological University) was selected to receive the **2008 STUDENT ACHIEVEMENT AWARD** at the upcoming 2008 Spring Phoenix ECS meeting.

The IE&EE Division will soon be announcing a request for nominations for the 2009 New Electrochemical Technology (NET) Award. All sponsoring organizations of commercial, new electrochemical technology are invited to submit their nominations for the 2009 NET Award (see page 48 of this issue, and the ECS website, for award details).

IE&EE Report

The IE&EE Division still continues to struggle to find authors for the Division's **REPORT ON THE ELECTROLYTIC INDUSTRIES** that compiles recent events in the field of industrial electrochemistry and electrochemical engineering and is intended to be published annually by the ECS. **A key question is, "Do ECS members and the**

ECS readership place any value on the Report on the Electrolytic Industries?" Again, if you have an interest in this two-year commitment or an answer to our question, please contact Dennie Mah at 302.367.6475 or doctor_electro@msn.com.

Symposia

The IE&EE Division featured a unique symposium topic at the ECS 2007 fall meeting in Washington, DC entitled, **LEADERSHIP AND ENTREPRENEURSHIP IN ELECTROCHEMICAL ENGINEERING** (see related story in this section). The symposium attracted enough interest that the IE&EE Division will repeat this topic at the 2009 Spring San Francisco meeting. Other new symposium topics planned include, at Phoenix: **Tutorials in Electrochemical Engineering: Impedance Spectroscopy and Characterization of Porous Materials**; at Honolulu: **Tutorials in Electrochemical Engineering in Honor of Professor John Newman's 70th Birthday and Electrodes for Industrial Electrochemistry**.

Leadership and Entrepreneurship Symposium: A Unique Learning Experience

A new symposium was offered by the IE&EE Division of ECS during the recent Washington, DC meeting. Organized by **GAUTAM PILLAY**, **BOB SAVINELL**, and **JOHN VAN ZEE**, "Leadership and Entrepreneurship in Electrochemical Engineering: A Tutorial Symposium" consisted of four sessions in which invited speakers discussed career and leadership opportunities based on their own experiences, federal policy and support for science and technology, small business development, grant opportunities, and strategies for building partnerships.

Between 20 and 30 audience members participated in each of the four sessions. The attendees fully engaged the speakers in four panel discussions, and in each session, panelists remained after the session's conclusion to answer questions with individual audience members. This unique level of interaction demonstrates the value added to the ECS meeting by presenting a symposium like this.

The speakers at the symposium included:

- Robin Susko, IBM Microelectronics Division, Senior Technical Staff Member, ECS Past President

- Jeremy Meyers, University of Texas at Austin, formerly of UTC Fuel Cells
- Dennie Mah, DuPont
- Jean St-Pierre, University of South Carolina, formerly of Ballard Corporation
- Barry R. MacDougall, National Research Council Canada, and President of ECS
- Bob Simon, Staff Director, Committee on Energy and Natural Resources, United States Senate
- Debra Rolison, Section Head, Advanced Electrochemical Materials, Naval Research Laboratory
- Kate Beers, assistant director for physical sciences and engineering, Office of Science and Technology Policy
- Patrick Mara, Manager of Government Relations, ML Strategies
- Jennifer Poulakidas, Vice-President for Congressional & Governmental Affairs, National Association of State Universities and Land-Grant Colleges (NASULGC)
- Michael Telson, Senior Advisor, University of California Office of Federal Governmental Relations
- Ned A. Godshall, Founder and President/CEO, Altela, Inc.
- Joseph Stetter, Director, Micro-Systems Innovation Center, SRI International
- Levi Thompson, Professor, University of Michigan, and Chief Technology Officer for T/J Technologies, Inc.
- E. Jennings Taylor, Chief Executive and Intellectual Property Officer, Faraday Technology, Inc.
- Oliver Murphy, President and Co-Founder, Lynntech, Inc.
- Jan Talbot, Professor of Chemical Engineering & Materials Science, University of California, San Diego, and Past President of ECS
- Trung Nguyen, Professor of Chemical and Petroleum Engineering, University of Kansas
- Jim Fenton, Florida Solar Energy Center, University of Central Florida
- Bob Savinell, Case School of Engineering; and Charles Hussey, Department of Chemistry, University of Mississippi

Speakers were requested to submit written copies of their remarks for inclusion in the new online publication, *ECS Transactions*.

The symposium organizers hope to hold a second symposium at the 2009 San Francisco meeting.

The organizers greatly appreciate the efforts of Mary Yess, Stephanie Plassa, and Paul Urso to publicize the symposium in Washington and the support from the entire ECS headquarters staff to plan and present this new educational symposium.

ECS Expands Summer Fellowship Program

The ECS Summer Fellowship Program will be expanding in 2008 to help support promising young researchers. ECS will now award up to five Summer Fellowships each year: the Edward G. Weston, Colin G. Fink, Joseph W. Richards, and F. M. Becket fellowships; and for the first time, the Herbert H. Uhlig Summer Fellowship. In addition to offering a fifth fellowship, the award amount for each has increased to \$5,000 to support research during the summer.

The ECS Summer Fellowship program was founded in 1928 to support promising young scientists in their educational and research pursuits. Since the first fellowship was awarded in 1930, over 200 students have received this

honor. Several fellowship winners have gone on to become leaders not only in ECS, but also in the greater scientific community around the world. Winners include Vittorio de Nora, developer of the dimensionally stable anode; and Larry Faulkner, former ECS President and former President of the University of Texas.

The Uhlig Summer Fellowship has been partially funded from donations by ECS members and former students and friends of Herb Uhlig, the late ECS president. Special thanks are due to the committee who led this effort, including Greta Uhlig, Aziz Asphahani, R. Winston Revie, Florian Mansfeld, and Ron Latanision. To date, we have raised roughly half of the funds needed to fully endow this award. We hope to have continued success in our fundraising efforts to have the fellowship fully endowed by the end of next year. To help support this and other ECS student initiatives, please contact Amir Zaman, Director of Membership and Development, at amir.zaman@electrochem.org.



Registration opens
February 2008

ADVANCE REGISTRATION DEADLINE: April 18, 2008.

Annie Goedkoop Promoted to ECS Director of Publications



ANNIE GOEDKOOP has been promoted to ECS Director of Publications. Annie joined the Society in 2004 as Assistant Director of Publications; and through her steadily increasing experience in the ECS publications program, she has acquired the knowledge and expertise needed

for her new position. Annie will continue to manage the ECS journals in all aspects; and she now has oversight for *ECS Transactions* (ECST). ECST will continue to be managed by John Lewis.

"Annie has become a tremendous asset to the Society," said Mary Yess, ECS Deputy Executive Director. "She has made many improvements in the journals area, and has begun to apply her thorough and careful management to other publications. Her promotion comes at an important time as the Society embarks on strategic planning for its publications and related programs."

Mary Yess, who has been ECS Deputy Executive Director for over three years, had been the Director of Publications as well. With Annie's promotion, she will now devote her time to her role as Deputy. As such, she will continue oversight of the two major program areas (publications and meetings) and will also continue to develop new programs and business for ECS. As part of her marketing responsibilities, she will continue to serve as Managing Editor of *Interface*.

Annie's primary responsibility is the management of the production of the *Journal*, *Letters*, and the ECS books program. Annie has become a familiar and friendly face at ECS meetings, and she may continue to be found often at the publications display.

Annie is a graduate of Cook College, Rutgers University with a BA in anthropology. She has taken additional classes in graphic arts at the Rhode Island School of Design. Annie has over 20 years experience in publishing production. While working for a major academic book typographer, Annie developed and implemented operating procedures for its overseas division located in Barbados, West Indies.

Before coming to ECS, Annie worked in Rhode Island for Cherry Semiconductor, later acquired by ON Semiconductor. Annie was the Technical Publications Production Manager and was responsible for the production of their technical literature and sales/marketing collateral. Annie worked as the Newsletter Manager at the IEEE before she moved to Rhode Island. In that position, Annie worked closely with volunteer editors of various societies of IEEE and departments within IEEE. She helped produce over 20 quarterly or bimonthly newsletters. Her experience at the IEEE gave Annie a chance to work in the kind of technical publishing environment she enjoys as well as an opportunity to learn the workings of a professional society.

Amir Zaman Promoted to Director of Membership & Development



AMIR ZAMAN was recently promoted to the position of ECS Director of Membership and Development. Amir joined the Society September 2005 as the Associate Director of Development. Amir said, "I am really looking forward to taking on the challenge. We have had

some very positive growth in our corporate involvement the last two years and I am eager to replicate these successes across the Society's other membership and development programs." In addition to his responsibilities with individual and corporate membership, Amir will direct the development activities at ECS. These include the annual fundraising campaign, corporate sponsorship, educational grants, and planned giving.

Amir is a graduate of Pace University, New York, NY with a bachelor's degree in international management. While at Pace, he served as the Director of Marketing for the school's community outreach department, managing corporate and government relations for 13 programs across New York. Prior to joining ECS he worked in Houston, Texas, at Echo Geophysical in corporate marketing in the oil and gas exploration industry, where he was responsible for new client development and brand promotion. ECS Executive Director Roque Calvo said, "Amir has done an excellent job in adding new Corporate Members to the organization, as well as encouraging current ones to upgrade to higher levels. He has also solidified the Technical Exhibit program, bringing new exhibitors to the ECS meetings."

Paul Urso Joins Meetings Staff



PAUL URSO joined ECS last March as the new Meetings and Program Coordinator. He is responsible for assisting in the development, organization, and planning of ECS meetings and exhibits. Paul spends a great deal of his time working very closely with meeting authors

and organizers, aiding them with abstract submission and symposium scheduling. Paul is a 2001 graduate of Elizabethtown College in Elizabethtown, Pennsylvania, where he earned a bachelor's degree in Business Administration with a double concentration in Marketing and Communications.

Paul began his career in software as part of the marketing team at Advanced Data Systems Corporation (ADS), a leading provider of practice management electronic medical records solutions to the healthcare industry. He later focused his career in the nonprofit environment, working for Resource Management Plus (RMP), a full service professional association management company, specializing in health care and related professions.

Prior to joining ECS, Paul worked in Philadelphia, PA, at Fernley & Fernley, Inc., where he continued working with nonprofit organizations representing healthcare professionals, as the association manager of the Eastern Nursing Research Society (ENRS). In just three short years as association manager, ENRS doubled its membership and had one of its most successful annual scientific sessions.

"Paul has directly-related experience that he has already put to good use in his new position," said Stephanie Plassa, ECS Meetings Director. "His experience with abstract submission has enabled him to learn and manage MAS-PXP quite adeptly. His interest in continuously improving the system to best serve its users has already resulted in a smoother process for authors as well as organizers."



Don't forget to vote!

The election process is Web-based and fast. If we have an e-mail address for you, you'll receive a message with a link to the online voting in **January 2008**. If we don't have your e-mail, you'll receive a paper ballot. See page 12 for information about the current candidates.

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New Division Officers

New officers for the 2007-2009 term have been elected for the following Divisions.



Luminescence and Display Materials Division

Chair

Uwe Happek, Univ. of Georgia

Vice-Chair

Kailash C. Mishra, O. Sylvania

Treasurer

John Collins, W. College

Secretary

Holly A. Comanzo, GE Global Research Center



High Temperature Materials Division

Chair

Eric J. Wuchina, Naval Surface Warfare Center

Sr. Vice-Chair

Enrico Traversa, Universita di Roma "Tor Vergata"

Jr. Vice-Chair

Jeffrey W. Fergus, Auburn University

Secretary/Treasurer

Timothy R. Armstrong, Oak Ridge National Lab



Electrodeposition Division

Chair

Gery R. Stafford, NIST

Vice-Chair

Christian Bonhote, H. Global Storage Technologies Japan, Ltd.

Treasurer

Hariklia (Lili) Deligianni, IBM Corp.

Secretary

Giovanni Zangari, University of Virginia

Members-at-Large

Elizabeth J. Podlaha-Murphy
Stanko R. Brankovic

Corporate Membership News

The number of companies supporting ECS and enjoying the benefits of corporate membership continues to grow with five new Sponsoring level participants. Our new members include **Honda R&D, Vegrandis, LLC, Kemira Pulp&Paper, W. L. Gore & Associates, and ECN - Energy Research Centre of The Netherlands**. Two other companies, **Scribner Associates** and **FSI International**, upgraded their memberships to the Sponsoring level.

HONDA R&D was established in 1960 with the separation of the research and development division from Honda Motor Co. Honda's Automobile R&D Center (Tochigi) in Japan includes research facilities dedicated to the development of next-generation powertrains. Here, Honda engineers are developing new means of propulsion that may one day contribute to human mobility.

VEGRANDIS, LLC offers fully automated electrochemical instruments, disposable chips and cartridges, and reagent kits for rapid, sensitive, and small volume detection of biological and chemical agents. These products are used for multiplex detection of pathogens, proteins, DNA, whole cells, and inorganic chemicals for environmental, medical, homeland security, and other applications.

KEMIRA PULP & PAPER is a leading supplier of pulp and paper chemicals. Its products are needed in all facets of paper making, from pulping to paper coating and recycling. It is part of the Kemira Chemicals Group, which includes Kemira Water, Kemira Specialty, and Kemira Coatings. Headquartered in Finland, the Kemira Group has a unique competitive position and a high degree of mutual synergies. From an R&D investment of 64 M\$ in 2006, Kemira's solutions provide application know-how, chemicals and product development for customers in over 40 countries.

W. L. GORE & ASSOCIATES creates innovative, technology-driven solutions for diverse consumer, industrial, electronic, medical, and surgical markets, and owes its 50 year success to both product and organizational innovation. The privately held enterprise has annual sales over \$2 billion, a manufacturing or sales presence in more than 80 countries and more than 8,000 employees worldwide. Gore's core competency in fluoropolymer science and more than 20 years experience

in electrochemistry has created the next generation of key components for energy storage and electrochemical devices, including membrane electrode assemblies for PEM fuel cells, and electrodes and separators for batteries and capacitors.

ECN, the Energy Research Centre of The Netherlands, develops high-value knowledge and technology for sustainable energy management and bring this to the market. ECN wants to contribute to energy innovation by working with universities and research institutions to develop the knowledge and technology that will constitute the basis for future business activity. It is essential that this knowledge be applied and therefore cooperation with industry, intermediary organizations and the government is needed in all stages of the work. ECN operates on the basis of its recognition as the national energy institute and its ambition to provide direction and to play a major role internationally. So, providing policy advice is also part of our core activities.

Corporate membership is a relationship of great mutual benefit to both member organizations and ECS. As a corporate member, your organization can receive: password-free online access to current and archived content in both of ECS's serial publications, the *Journal of The Electrochemical Society* and *Electrochemical and Solid-State Letters* for company facilities; complimentary individual memberships; free meeting registrations to our biannual events, which attract upwards of 3,500 scientists each year; subscriptions to ECS's two highly rated journals and the quarterly, *Interface*; recognition throughout the ECS website and publications; and, many more.

If your organization is interested in supporting ECS and receiving the benefits of corporate membership, please contact Amir Zaman, Director of Membership and Development, at amir.zaman@electrochem.org or 609.737.1902 ext. 103.