



the society for solid-state
and electrochemical science
and technology

ANNUAL REPORT 2007

The Transmission of Scientific Information

Organizations that have a true passion for their work have a singular opportunity to reach the highest levels of accomplishment. Our passion is to disseminate knowledge in order to advance the science. In 2007, ECS was intensely focused on making ECS programs, and in particular, the publications and meetings, the best vehicles for this purpose. In no single year in recent history have we been more consumed with these mission-focused strategies and transitions. Our new strategic plan, the culmination of a year's work, will allow us to offer unlimited opportunities for collaboration and the transmission of scientific information, enabling ECS to satisfy its mission more effectively than ever.



GORDON E. MOORE (left), Chairman Emeritus of Intel Corporation and long-time ECS member, was awarded with Honorary Membership status. ECS President **MARK ALLENDORF** (right) presented Dr. Moore with a scroll commemorating his election, an award granted to only a few ECS members.

It is people who advance the science and technology in our fields, and **GORDON E. MOORE** is one of three ECS notables we recognize in this annual report as leaders in the transmission of that knowledge. An ECS member for almost 50 years, Dr. Moore was recently made an Honorary Member, an award granted to only a few ECS members. Dr. Moore has been the subject of a number of stories in *Interface*, including coverage of his delivering the ECS Lecture at two ECS meetings (1981 and 1997), as well as the cover story for the spring 1997 issue of *Interface*. In 2006, in recognition of his accomplishments and contributions, ECS established the Gordon E. Moore Medal for Outstanding Achievement in Solid State Science and Technology. Originally called simply the Solid State Science and Technology Award, the newly re-named Medal was made possible by a \$150,000 endowment from Intel Corporation in honor of its cofounder. ECS is proud to hail Dr. Moore as an Honorary Member and to continue its relationship with this important scientist.

ANNUAL REPORT

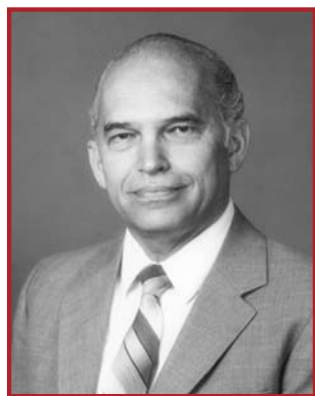


NORMAN HACKERMAN (1912-2007)—former Editor of *JES* and president of two universities—as he was in 1957 at the start of his ECS presidency.

For 40 years, **NORMAN HACKERMAN** was the Editor of the *Journal of The Electrochemical Society* (JES). Although his official title evolved during that time, he was known for his strong stewardship of the Society's flagship publication. In the words of Paul Kohl, Editor of JES, "Norman Hackerman was a hero to many. He started like many, doing corrosion and other studies, but then began to do extraordinary things. ... He met every challenge and was there for us all." Dr. Hackerman had many challenges

in bringing JES up from a small journal to the impressive publication he handed off to the next generation of authors and editors. (See this issue of *Interface*, p. 23, for an "ECS Classics" on Dr. Hackerman; and the fall 2007 issue, p. 25, for a notice of his death.)

Dr. Hackerman served as chair of the Corrosion Division (1951), was elected Vice-President of the Society in 1954, and went on to the presidency in 1957. He received ECS's highest honors: the Olin Palladium Medal Award in 1965, the Acheson Award and Prize in 1984, and Honorary Membership in 1973. Because of his great enthusiasm for teaching, and his longstanding service as Editor, in 1990 the ECS Board of Directors changed the name of its Young Authors' Prize to the Norman Hackerman Young Author Awards. The prizes are awarded every year to the two best papers published in JES by a young author or co-author.



BRUCE E. DEAL (1927-2007)—"Give me a large enough furnace and a place to stand and I'll oxidize the world."

BRUCE E. DEAL was another ECS notable who made his mark in solid state science and technology. Dr. Deal, who died in 2007, worked with Gordon Moore, Andy Grove, and other scientists at Fairchild Semiconductor in the 1960s. They developed processes leading to the manufacture of stable MOS semiconductor devices and circuits and to the explosive growth of the MOS integrated circuit industry in the early 1970s. A paper published in 1965, co-authored with Grove, concerning the mechanism of silicon thermal oxidation,

was one of a series over a 15 year period or so, and has been one of the most cited publications in the semiconductor field. Deal became a member of ECS in 1955 and was active in many aspects of the Society: in many roles with the Electronics and Photonics Division, chairing numerous Society committees, and serving as President (1988-89). He was the recipient of several of the most prestigious ECS awards: ECS Fellow (1991), the ECS

Gordon E. Moore Medal for Outstanding Achievement in Solid State Science and Technology (1993), and the ECS Edward G. Acheson Award (2002). (See the summer 2007 issue of *Interface*, p. 20, for a notice of Dr. Deal's death.)

Publications

Thanks to exemplary research tool called the **ECS**



DIGITAL LIBRARY, ECS technical content is viewed by more scientists and engineers than ever before in our history. The content holdings took another leap in 2007, with more current

content added daily, and with the addition of legacy articles from JES, taking the archive back to 1955. All ECS technical publications now have a home in the Digital Library, including Meeting Abstracts—extended abstracts of the technical papers presented at the spring and fall meetings of ECS for ECS-sponsored meetings and free to all readers.



DANIEL A. SCHERSON was appointed the new Editor of the *Journal of The Electrochemical Society*.

ECS was pleased to announce the selection of **DANIEL A. SCHERSON** as the new Editor of the **JOURNAL OF THE ELECTROCHEMICAL SOCIETY** (JES), for a five-year term beginning January 1, 2008. Carl Osburn, ECS Past President and Chair of the Search Committee, noted that the committee "recognized that the next Editor will face a number of key challenges. In addition to addressing operational issues such as further decreasing lagtimes, innovation is also needed when thinking about strategic directions for JES."

Prof. Scherson joined Case Western Reserve University as an assistant professor in the Department of Chemistry in 1983, and he is currently the Charles F. Mabery Professorship of Research in Chemistry, a position he has held since 2003, and also Director of the Ernest B. Yeager Center for Electrochemical Sciences. He has served as an Associate Editor of JES.

ECS Publication Committee Chair Subhash Singhal thanked the outgoing Editor. "Paul A. Kohl has contributed tremendously in guiding JES to be the success it is today. He is also owed thanks for his leadership as the first Editor of *Interface*, and for his remarkable work in launching *Electrochemical and Solid-State Letters* (ESL) in 1998." (See the winter 2007 issue of *Interface*, p. 15, for a story about Paul Kohl.)

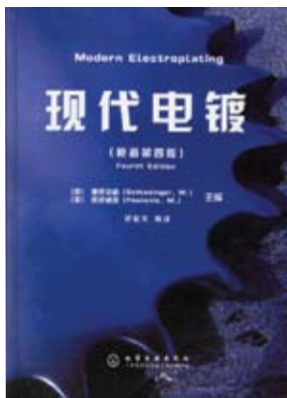
In addition to JES, the most highly cited journal in electrochemistry, articles from **ELECTROCHEMICAL AND SOLID-STATE LETTERS** (ESL), the first rapid-publication electronic journal in its field, were also available, back to that journal's inception in 1998. ESL continued under the leadership of Editor Dennis Hess. Together, both journals recorded a record 2,115 submissions in 2007, showing the clear demand for these highly-cited, peer-reviewed knowledge venues.



JOHN W. WEIDNER was named the first Editor of ECS Transactions (ECST).

Named to the position the previous year, **JOHN W. WEIDNER** became the first Editor of **ECS TRANSACTIONS (ECST)** in 2007. The Society's newest publication (launched in 2005) is an online database that includes full text content from papers that have been presented at ECS meetings and ECS-sponsored meetings. Professor Weidner received his BS in chemical engineering from the University of Wisconsin-Madison in 1986, and his PhD in chemical engineering from North Carolina State

University in 1991 under the direction of Peter S. Fedkiw. He joined the Department of Chemical Engineering at the University of South Carolina (USC) as an assistant professor in 1991. He was promoted to Associate Professor in 1997 and Professor in 2004. He is currently serving as Interim Associate Dean for Research in the College of Engineering and Computing at USC.



Extending the reach of ECS content also means providing it in other languages. *Modern Electroplating*, from the **SOCIETY MONOGRAPH SERIES**, was published in Chinese translation by the Beijing-based Chemical Industry Press. Originally published in 1942 (it was the Society's first monograph), it is now in its fourth edition, and edited by Mordechai Schlesinger and Milan Paunovic. The 800-page book is geared toward experienced

practitioners and novices alike, providing thorough, up-to-date explanations of the principles and techniques of electroplating technology. Dr. Schlesinger is a professor in the Department of Physics at the University of Windsor (Canada); and Dr. Paunovic was until recently a research staff member in the Electrodeposition Technology Department at the IBM T. J. Watson Research Center (U.S.).

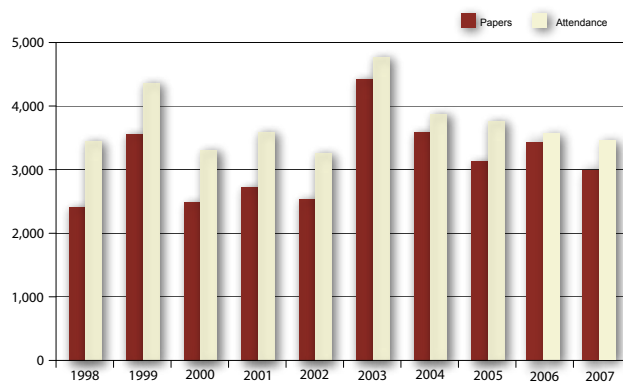
INTERFACE has long presented technical content from the various Divisions that form the core of ECS, but the magazine also has looked to extend its technical breadth through articles bringing research and findings new to its readership. The *Interface* Advisory Board spends a significant amount of its meeting in brainstorming to identify possible themes and stories. In the winter 2007 issue, Editor Krishnan Rajeshwar looked more deeply at this practice of "collective intelligence." He said, "...the translation of fundamental ideas to useful products and processes has always remained the hallmark of teams. This is something that industry and national laboratories/government agencies have always done well, *i.e.*, mobilize the best combination of scientists and engineers to accomplish a given task."

scitopia.org

Scitopia.org, the free, federated search portal created by a partnership of leading science and technology scholarly societies, including ECS, officially launched at the Special Libraries Association's annual conference in 2007.

Throughout 2007, ECS worked in partnership with a group of the leading science and technology scholarly societies, to create **SCITOPIA.ORG**, the free, federated search portal. Scitopia.org aggregates the entire electronic libraries of its partners, publishers of the content most often cited in patent applications and scholarly scientific works. More than three million documents, primarily peer-reviewed journal content and conference proceedings, dating from the mid-1800s to the present, can be searched through this dedicated gateway. Society partner databases are searched in real time, allowing scitopia.org to deliver the Web's most timely scitech search results. In addition to the published works of its partners, scitopia.org also searches a database of nearly 50 million worldwide patents from the United States Patent and Trademark Office, the Japan Patent Office, and the European Patent Office. Scitopia.org is yet another channel through which technical content is disseminated.

Meetings



The Society met in **CHICAGO, ILLINOIS** for the 2007 spring meeting. The meeting was a success, attracting 1,509 attendees choosing from 1,351 papers in 38 topical symposia. James M. Tour, Director of the Carbon Nanotechnology Laboratory, delivered the ECS Plenary Lecture entitled, "NanoCars and Hybrid Silicon/Molecule Devices." Also featured was Tak H. Ning, recipient of the 2007 Gordon E. Moore Medal for Outstanding Achievement in Solid State Science and Technology. Dr. Ning delivered his talk entitled "Thirty Years of Fun and Excitement Working on Silicon Technology at IBM Research."

The fall 2007 meeting was held in **WASHINGTON, DC**. The meeting drew 1,966 attendees choosing from 1,576 papers in 35 symposia. Bernard S. Meyerson, of IBM, delivered the ECS Plenary Lecture, "The Origins of and Imperative for Green IT." Also featured was Sergio Trasatti, recipient of the 2007 Olin Palladium Medal, who delivered his talk entitled, "An Excursion to the Heart of Electrochemistry."

The Society co-sponsored a large number of topical meetings and symposia all over the globe in 2007, including the 2nd Annual Fuel Cells Workshop in Cocoa, Florida, USA; Hydrogen & Fuel Cells 2007 in Vancouver, Canada; the 2007 International Society of Electrochemistry Spring Meeting in Dublin, Ireland; and the 8th International Conference on Advanced Batteries and Accumulators in Brno, Czech Republic.

(continued on page 66)

ANNUAL REPORT



The first Gordon E. Moore Medal for Outstanding Achievement in Solid State Science and Technology was presented to **TAK H. NING** (second from left), who delivered a talk on his 30 years at IBM. **MIKE MAYBERRY** (far right), Vice-President of the Technology/Manufacturing Group, and Director of Components Research, represented Intel, which endowed the newly-renamed Moore Medal. **GHAVAM SHAHIDI** (far left), from IBM Corporation, introduced Dr. Ning. ECS President **MARK ALLENDORF** (third from left) presented Dr. Ning with the new Moore Medal.



PAUL A. KOHL (left) received a special commendation from President **BARRY MACDOUGALL** (right), for his many years of service as Editor of the Journal of The Electrochemical Society.



At the fall meeting in Washington, DC, ECS President Barry R. MacDougall introduced the two newest ECS Honorary Members. Pictured in the left photo is **BARRY MACDOUGALL** (left) and Honorary Member **JOHN S. NEWMAN**; pictured in the photo at right is President MacDougall (right) and Honorary Member **JERRY M. WOODALL**.



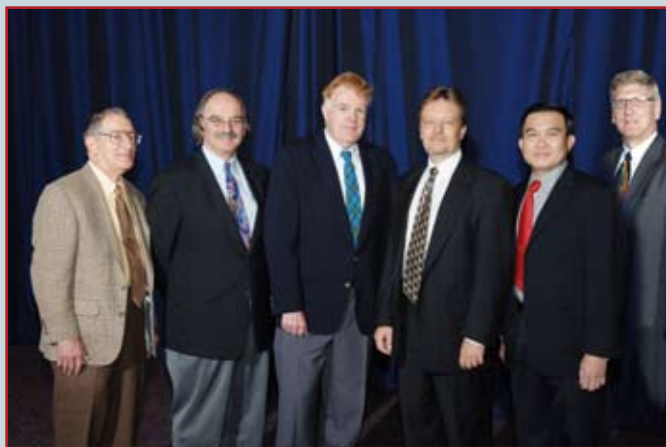
The 2007 Carl Wagner Memorial Award was presented to **PHILIP N. BARTLETT** (right) by ECS President **BARRY R. MACDOUGALL** (left).



Nanovehicles were the subject of the ECS Lecture at the Plenary Session in Chicago. **JAMES M. TOUR** (second from left) delivered a fascinating talk on molecular machines. Joining him before the talk were ECS Vice-President **D. NOEL BUCKLEY** (far left), ECS President **MARK ALLENDORF** (third from left), and ECS Executive Director **ROQUE CALVO** (far right).



A view of the Technical Exhibit at the 212th meeting.



The 2007 Class of ECS Fellows was recognized by President **BARRY MACDOUGALL** at the Plenary Session at the ECS fall meeting. Pictured from left to right are: **DENNIS G. PETERS**, **DANIEL A. SCHERSON**, (President MacDougall), **ERIC D. WACHSMAN**, **SIMON S. ANG**, and **JAMES M. FENTON**. Unable to attend the ceremony in Washington were new Fellows **MARC CAHAY** and **VIOLA BIRSS**.



BERNARD MEYERSON (third from left), Vice-President for Strategic Alliances and Chief Technology Officer of IBM's Systems and Technology Group, delivered the ECS Lecture at the Plenary Session in Washington, DC. Joining Dr. Meyerson (from left to right) were **ROBIN SUSKO**, of IBM and ECS Past president; ECS President **BARRY R. MACDOUGALL**; Meyerson; and ECS Executive Director **ROQUE CALVO**.



The 2007 ECS Olin Palladium Award was presented to **SERGIO TRASATTI** (center) by ECS President **BARRY R. MACDOUGALL** (left) at the Washington meeting. On hand to congratulate the medalist was a representative from the Olin Corporation, **DAVID CAWLFIELD** (right).

ANNUAL REPORT

Membership

ECS looked toward the future in 2007, holding its first ever student member recruitment drive throughout the year. Active members of the Society based at universities proved to be the greatest possible recruiters as their efforts resulted in the largest single year increase in **STUDENT MEMBERSHIP** in ECS history. These new students, along with all ECS members, continued to enjoy a superior package of benefits at a very affordable rate in 2007. With the expansion of the collections in the ECS Digital Library, there has never been a better time to be a member of the Society.



ECS President **MARK ALLENDORF** (right) presented Leadership Circle Awards to long-time corporate supporters of ECS. **DAYAL MESHRI** (left) received a Silver Level Award on behalf of Advance Research Chemicals and **FRANK MCGORTY** (center) received a Gold Level Award on behalf of Gruppo De Nora. Missing from the photo was Dan Scherson, who received a Silver Level Award on behalf of the Ernest B. Yeager Center for Electrochemical Sciences at Case Western Reserve University. Unable to attend the meeting were CSIRO Minerals at Gold Level and Permascand AB at the Bronze Level.

The **CORPORATE MEMBERSHIP** program continued to grow and simultaneously achieve a much greater distribution of technical content to the scientific community. A key component of the program is the ECS Digital Library benefit, which grants online access to company employees. The number of corporate members increased twelve (including four new Benefactors, our highest level of support), to a total of 83 in 2007. In total, 159 organizations partnered with ECS in 2007 through the Corporate Affiliates program including corporate membership, meeting sponsorship, advertising, and the technical exhibition.

Outreach

In 2007, ECS and the International Society of Electrochemistry (ISE) established an **AGREEMENT OF COOPERATION** to benefit members of the two societies and the electrochemical community at large, with a view to providing the best possible outlets for disseminating scientific research and discovery. A focus on education brought representatives of both societies together. The cooperation agreement also specifically supports the establishment of a joint task force open to other major electrochemical societies.

Both societies will exchange information, in particular with regard to future activities. Each society will place announcement of meetings on their respective websites, and at meetings, each society will provide a table for the other society to post information about membership



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



Reaching young students—The ECS Pittsburgh Section participated in the National Chemistry Week activities at the Carnegie Science Center in Pittsburgh, PA. Here, students gather at the Section's table, staffed by **BETH TOMASOVIC** and **RAFF MORALES**.



The ECS IE&EE Division's ongoing **OUTREACH PROGRAM** brought a fuel cell car competition, designed to introduce youth to new electrochemical technology, to students at the Nettelhorst School in Chicago.

and society publications. Sponsorship of meetings, another item of the agreement, will allow meeting organizers to request cosponsorship 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.

The Industrial Electrochemistry and Electrochemical Engineering (IE&EE) Division conducted its second **OUTREACH PROGRAM** during the ECS spring meeting in Chicago. The event took place at the Nettelhorst School, a local Chicago public elementary school. Forty 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. This very successful program was repeated at the fall meeting in Washington, DC, with a program at the F. W. Ballou High School.

ECS augmented its Meeting Sunday **SHORT COURSE** program with the first in a series of tutorials to address topics of interest to corporate researchers. The first **CORPORATE TUTORIAL** was entitled, "Intellectual Property: An Introduction for Research Scientists, Engineers and Technologists," and it took place during the fall 2007 ECS meeting in Washington. This tutorial provided an introduction to the various forms of intellectual property, trade secrets, trademarks, and copyrights, with an emphasis on patents.

Sections & Chapters

The Society's efforts to actively engage scientific communities throughout the world resulted in positive gains in our international **SECTIONS**. We witnessed the creation of three new Sections in 2007: Mexico, Taiwan, and China. Sections in Japan, Korea, Israel, Europe, and Canada all posted positive growth in their membership base, with several growing upwards of 10%.

The **STUDENT CHAPTERS** also continued to grow as the Society placed a greater emphasis on recruiting the next generation of electrochemists and solid-state scientists. Two new Chapters, at the University of Cincinnati and Auburn University, were established in 2007. The program offers students an opportunity to understand electrochemical and solid-state sciences, to have a venue for meeting fellow students, and to receive recognition for their organized scholarly activities and



Professor **ALLEN J. BARD** (left) received the 2007 Gerischer Award Recipient of the ECS European Section from ECS President **MARK ALLENDORF**. Prof. Bard has been the Hackerman-Welch Regents Chair in Chemistry at the University of Texas since 1985 and is renowned in the field, including being recognized for helping to develop scanning electrochemistry microscopy.

ECS Student Chapters

- Electrochemical Society of the University of Central Florida, established 2000
- University of Florida Student Chapter, founded 2005
- ECS Cleveland Section and Ernest B. Yeager Center for Electrochemical Sciences Joint Student Chapter, founded 2005
- New York Capital Region Student Chapter, founded 2006
- The Ohio State University Student Chapter, founded 2006

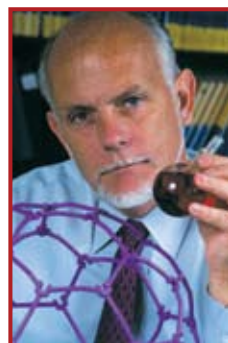
- University of Virginia Student Chapter, founded 2006
- University of California - Berkeley Student Chapter, founded 2006
- Technical University Brno Student Chapter, founded 2006
- University of Rome "Tor Vergata" Student Chapter, founded 2006
- University of Texas at Austin Student Chapter, founded 2006
- University of Cincinnati Student Chapter, founded 2007
- Auburn University Student Chapter, founded 2007

Fundraising

The Society held its first **ANNUAL CAMPAIGN** in 2007, fresh on the heels of its successful first capital campaign. ECS raised over \$104,000, thanks to the contributions of 339 individuals, corporations, and foundations in 24 countries. (See page 74 for a list of donors.) Donations made by members are an investment in the future of, not only the Society, but also the electrochemical and solid-state sciences.



ECS Past President (1993-94) **ROBERT P. FRANKENTHAL** (left) preparing to sign a charitable gift annuity in the presence of ECS Senior Vice-President **BARRY MACDOUGALL**. Funds from the annuity will be used to support the ECS Digital Library.



The FNCN Division established an award named for **RICHARD E. SMALLEY** who died in 2005 and who was awarded a Nobel Prize in 1996.

The two areas that received the most support last year were student related causes and the ECS Digital Library. Past ECS presidents continued to provide generous contributions to support the digitization and upkeep of the volumes of the *Journal of The Electrochemical Society* during their year in office.

The Fullerenes, Nanotubes, and Carbon Nanostructures Division established two awards. The SES Research Young Investigator Award to support young researchers, and the Richard E. Smalley Research Award to reward outstanding research. The Society's richest award, the Oronzio De Nora Industrial Electrochemistry Fellowship, supported by an annual contribution of \$25,000 from the Oronzio De Nora Foundation, was awarded for the fourth time in 2007. ■

membership statistics

(as of October 1, 2007)

Table I. ECS Membership by Class

Category	2002	2003	2004	2005	2006	2007	2007/2006 %Change
Active	5297	5411	5405	5126	5061	4974	-1.7
Member Reps	58	63	66	61	73	89	18.0
Life	51	52	46	46	46	45	-2.2
Emeritus	247	246	215	230	229	234	2.1
Honorary	26	29	27	25	24	26	7.7
Subtotal Active in Good Standing	5679	5801	5759	5488	5433	5368	-1.2
Delinquent	961	797	823	1054	1014	941	-7.8
Total Active on Record	6640	6598	6582	6542	6447	6309	-2.2
Students	869	882	889	792	864	1206	28.4
Delinquent	315	330	389	450	440	304	-44.7
Total Students	1184	1212	1278	1242	1304	1510	13.6
Total Individual Members	7824	7810	7860	7784	7751	7819	0.9

Table II. ECS Membership by Section

Section	2002	2003	2004	2005	2006	2007	2007/2006 %Change
Arizona	106	122	125	115	132	118	-11.9
Brazilian	45	34	32	39	42	54	22.2
Canadian	213	223	241	292	258	283	8.8
Chicago	149	178	174	162	166	208	20.2
China						62	
Cincinnati	52	46	57	48	53		
Cleveland	123	125	135	122	114	114	0.0
Detroit	94	90	95	81	92	105	12.4
European	1029	1178	1033	1062	1019	1043	2.3
Georgia	173	172	198	161	154	172	10.5
Israel	34	35	35	30	28	25	-12.0
Japan	698	754	774	755	757	756	-0.1
Korea	213	224	197	192	175	187	6.4
Metropolitan New York	337	322	315				
Mexico						66	
National Capital	238	217	212	186	200	188	-6.4
New England	347	353	351	326	318	327	2.8
Pittsburgh	88	89	84	88	89	98	9.2
San Francisco	404	379	419	383	387	366	-5.7
Taiwan						122	
Texas	183	172	198	178	181	167	-8.4
Twin Cities	80	77	85	92	91	91	0.0
Non-Section	1668	1632	1767	1980	2042	2022	-1.0

Table III. ECS Membership by Division*

Division	2002	2003	2004	2005	2006	2007
Battery	2381	2500	2625	2549	2511	1378
Corrosion	1561	1682	1716	1656	1584	531
Dielectric Science & Technology	1328	1399	1425	1339	1278	377
Electrodeposition	1660	1802	1888	1782	1727	509
Electronics & Photonics	2118	2154	2152	1999	1812	815
Energy Technology	1935	2155	2377	2427	2434	929
Fullerenes, Nanotubes and Carbon Nanostructures	287	503	706	687	713	194
High Temperature Materials	923	1061	1113	1096	991	205
Industrial Electrochemistry & Electrochemical Engr	1221	1365	1454	1393	1343	277
Luminescence & Display Materials	690	777	841	793	701	110
Organic & Biological Electrochemistry	984	1112	1243	1122	1026	188
Physical & Analytical Electrochemistry	2368	2500	2614	2554	2426	643
Sensor	1077	1253	1419	1382	1271	242

*The 2007 Division statistics represent only the primary interest of members. Prior to 2007, the numbers represent primary and secondary interests of members.

corporate partners

(Companies listed in bold are new for 2007)

- 3M Company
 Advance Research Chemicals, Inc.
 Agilent Technologies
 Air Liquide
 AIXTRON AG (Germany)
All Cell Technologies
AMEC (China)
AMEL Instruments (Italy)
 AMETEK Scientific Instruments
 AnnealSys (France)
 Applied Materials
 Applied NanoFluorescence, LLC
 Arbin Instruments
Asahi Glass Research Center (Japan)
Asahi Kasei Chemicals (Japan)
 ASM International (Netherlands)
ASME
 Atotech USA, Inc.
 BAE Systems Applied Technologies
 Ballard Power Systems, Inc. (Canada)
 BASF Fuel Cell
Bio-Logic (France)
 Brinkmann Instruments, Inc.
 Broddarp of Nevada
 C. Uyemura & Co. Ltd. (Japan)
Cabot Corporation
 Cambridge NanoTech Inc.
 Canon ANELVA Corporation (Japan)
Case Western Reserve University
 Central Electrochemical Research Institute (India)
 Centrotherm Thermal Solutions GmbH + Co. KG (Germany)
COMSOL, Inc.
 Coolohm, Inc.
CRK Group
 CSIRO Minerals (Australia)
DaimlerChrysler (Germany)
 DAISO Co., Ltd. (Japan)
 Degussa Evonik GmbH (Germany)
 Dow Chemical Co.
 DuPont, HD Microsystems LLC
 Duracell
EaglePicher Technologies LLC
ECHEM Centre of Competence in Applied Electrochemistry (Austria)
ECN - Energy Research Centre of the Netherlands (Netherlands)
ECO CHEMIE BV (Netherlands)
 ECO Energy Conversion
 eDaq, Inc.
 ElectroChem, Inc.
 Electrosynthesis Company, Inc.
 EMD Chemicals Inc.
 Energizer
Epichem Group (United Kingdom)
ESI Group
Excellatron Solid State
- Faraday Technology, Inc.
Fauske & Associates, LLC
 FMC Corporation, Peroxygens Division
Ford Motor Company
 FSI International
Fuel Cell Materials
Fuel Cell Technologies, Inc.
 Fuel Con Systems
 Gamry Instruments
Gelest, Inc
 General Electric Global Research
 General Motors Research Labs
 Giner, Inc./GES
 Greatbatch, Inc.
 GS-Yuasa Corporation (Japan)
 Hach Company - Radiometer Analytical Division
Honda Research & Development Co., Ltd. (Japan)
 Hosokawa Micron Powder Systems
Hydro-Quebec (Canada)
 IBM Corporation
 Industrie De Nora S.p.A. (Italy)
 International Power Sources Symposium
 International Lead Zinc Research Organization
 International Association for the Properties of Water and Steam
 Ivium Technologies (Netherlands)
 Johnson Matthey Technology Centre (United Kingdom)
 Jusung Engineering (South Korea)
Kemira Oyj, Kemira Pulp & Paper
KLA-Tencor Corporation
 Koslow Scientific
Kurt J. Lesker Company
Lam Research
 Lawrence Berkeley National Laboratory
 Leclanche SA (Switzerland)
 MACCOR, Inc.
 Materials Today (United Kingdom)
 Matheson Tri-Gas
 Matsushita Battery Industrial Co. Ltd. (Japan)
 Mattson Technology, Inc.
 Max-Planck-Institut für Festkörperforschung (Germany)
Maxtek, A Division of Inficon
 Medtronic Inc.
 Mine Safety Appliances Company
Mitsui Engineering & Shipbuilding Co., Ltd. (Japan)
 Nacional de Grafite LTDA (Brazil)
 National Institute of Standards and Technology
 Nissan Motor Co., Ltd. (Japan)
Northern Illinois University
NXP Semiconductors (Netherlands)
 Occidental Chemical Corp.
 Olin ChlorAlkali Products Division
 OM Group, Inc.
- Osram Sylvania, Inc.
 Oxford Instruments (United Kingdom)
 Panasonic Energy Solutions Lab
 PEC North America
 Permascand AB (Sweden)
 Permelec Electrode Ltd. (Japan)
 Philips France (Netherlands)
 Philips Semiconductors (Netherlands)
 Pine Research Instrumentation
POROTECH Ltd.
Power Products Inc.
 PPG Industries, Inc.
 Princeton University Press
 QUALCOMM
 Quallion, LLC
 Rohm and Haas Electronic Materials LLC
 Saft America, Inc.
 Samsung SDI Co., Ltd (South Korea)
 Sandia National Labs
 SANYO Electric Co., Ltd. (Japan)
 Scribner Associates, Inc.
Semiconductor Diagnostics, Inc.
 SES Research
 SEZ Group (Austria)
 Sigma-Aldrich
 Siltronic AG (Germany)
 SOITEC (France)
 Spectrum Brands, Inc.
 Springer
Strategic Environmental Research and Development Program
Superior Graphite
 Tanaka Kikinzoku Kogyo K.K. (Japan)
TDI, Inc.
 TDK Corporation, Device Development Center (Japan)
 Technic Inc.
 Tennessee Technological University
 Test Solutions
 The Institution of Engineering and Technology
 TIMCAL Ltd. (Switzerland)
 Toyota Central Research & Development Labs (Japan)
 Toyota Technical Center USA, Inc.
 Tronox LLC
US Army Research Office
USHIO Inc. (Japan)
 UTC Fuel Cells
 Valence Technology
 Varta Automotive Systems GmbH (Germany)
Veeco Instruments
Vegrandis, LLC
 W.L. Gore & Associates, Inc.
 Webcom Communications
 Yeager Center for Electrochemical Sciences
 ZSW (Germany)

board of directors

(as of October 2007)

Barry R. MacDougall

President and Board Chair
National Research Council of Canada

D. Noel Buckley

First Vice-President
University of Limerick

Paul M. Natishan

Second Vice-President
U.S. Naval Research Laboratory

William D. Brown

Third Vice-President
University of Arkansas

Petr Vanýsek

Secretary
Northern Illinois University

John R. Susko

Treasurer
IBM (retired)

Roque J. Calvo

Executive Director
ECS

Kuzhikalail Abraham, E-Kem Sciences

Mark Allendorf, Sandia National Laboratories

Albert Baca, Sandia National Laboratories

Francis D'Souza, Wichita State University

Hugh De Long, U.S. Air Force

Don Gervasio, Arizona State University

Uwe Happek, University of Georgia

Dennie Mah, DuPont

Rangachary Mukundan, Los Alamos National Laboratory

Patrik Schmuki, University of Erlangen

William Smyrl, University of Minnesota

Venkat Srinivasan, Lawrence Berkeley National Laboratory

Gery Stafford, NIST

Isao Taniguchi, Kumamoto University

Katalin Voros, University of California, Berkeley

Eric Wuchina, Naval Surface Warfare Center

Karim Zaghbi, Hydro-Québec

headquarters staff

(as of June 15, 2008)

Roque J. Calvo, Executive Director

Mary E. Yess, Deputy Executive Director

Dinia Agrawala, Production Assistant

Karen Chmielewski, Customer Service Representative

Anne Clementson, Publications Assistant

Paul Cooper, Journals Systems Manager

Corey Eberhart, Global Sales Manager

Tim Fest, Assistant Director of Membership and Development

Ann F. Goedkoop, Director of Publications

Andrea L. Guenzel, Journals Production Assistant

John Lewis, Associate Director of Conference Publications

Patricia T. Lorynski, Administrative Assistant

Kathy Mattiello, Customer Service Representative

Kimberley Milec, Director of Finance

Stephanie Plassa, Director of Meetings and Exhibits

Beth Anne Stuebe, Publications Assistant

Ellen M. Tiano, Associate Director of Membership

Jennifer Tripp, Associate Director of Human Resources

Paul J. Urso, Meetings and Program Coordinator

Amir Zaman, Director of Membership and Development

THE ELECTROCHEMICAL SOCIETY AND SUBSIDIARY

Consolidated Statement of Financial Position

(Years ended December 31, 2007 and 2006)

Assets	2007	2006
Cash.....	\$393,350	\$167,331
Accounts receivable, less allowance of \$4,000	241,286	186,502
Contributions receivable	2,350	3,350
Inventories	—0—	5,823
Prepaid expenses, deposits, and other assets.....	349,322	337,421
Investments in marketable securities	7,445,709	8,406,906
Investment in real estate, including construction in progress.....	3,060,670	2,239,453
Land	350,608	350,608
Buildings, less accumulated depreciation of \$59,994	206,665	213,331
Total assets	\$12,049,960	\$11,910,725

Liabilities and Net Assets

	2007	2006
Liabilities:		
Accounts payable and accrued expenses	\$ 297,029	\$ 415,670
Deferred revenue.....	522,963	477,480
Security deposits	28,524	23,503
Deferred compensation	16,017	21,682
Total liabilities	864,533	938,335

Net assets:

Unrestricted:		
General operating	127,111	328,408
Investment in land and buildings.....	557,273	563,939
Custodial	8,866,623	8,497,020
Designated.....	503,534	488,636
Designated earnings.....	161,863	131,371
Sections	120,515	122,265
Total unrestricted	10,336,919	10,131,639
Temporarily restricted	343,308	320,551
Permanently restricted.....	505,200	520,200
Total net assets	11,185,427	10,972,390
Total liabilities and net assets.....	\$12,049,960	\$11,910,725

See accompanying notes to consolidated financial statements.

(continued on next page)

ANNUAL REPORT

(continued from previous page)

Consolidated Statement of Activities

(Years ended December 31, 2007 and 2006)

Revenues	2007	2006
Publications	\$2,227,555	\$2,081,124
Membership	778,110	669,706
Society meetings and activities	1,258,296	1,287,561
Interest and dividend income	291,307	355,694
Contributions and grants	140,450	360,449
Rental income	381,118	389,695
Other revenues	4,697	14,601
Net assets (released) held for restrictions for awards	15,542	(6,350)
Total revenues and other support	\$5,097,075	\$5,152,480

Expenses	2007	2006
Program services:		
Publications	\$2,259,346	\$2,353,624
Membership	227,858	201,225
Society meetings and activities	1,018,924	776,085
Awards, fellowships, and grants	286,343	360,492
Total program services	3,792,471	3,691,426
Supporting services:		
General and administrative	892,924	909,050
Rental operations	323,735	315,202
Total supporting services	1,216,659	1,224,252
Total expenses	5,009,130	4,915,678
Increase in net assets from operations	87,945	236,802
Nonoperating gain (loss):		
Net change in fair value of investments	125,092	405,102
Net transfer to custodial and designated	—	—
Increase (decrease) in net assets	213,037	641,904
Net assets as of beginning of year	10,972,390	10,330,486
Net assets as of end of year	\$11,845,427	\$10,972,390

See accompanying notes to consolidated financial statements.

notes to financial statements

1—Summary of Significant Accounting Policies

The consolidated financial statements include the accounts of The Electrochemical Society and its Divisions, Groups, and Sections, and its wholly owned subsidiary, ECS Holdings LLC. All intercompany balances and transactions have been eliminated in consolidation.

These consolidated financial statements, which are presented on the accrual basis of accounting, have been prepared to focus on The Electrochemical Society and subsidiary (the Society) as a whole, and to present balances and transactions according to the existence or absence of donor-imposed restrictions. Accordingly, net assets and changes therein are classified as follows: Unrestricted Net Assets—net assets not subject to donor-imposed stipulations; Temporarily restricted net assets—net assets subject to donor-imposed stipulations that will be met by actions of the Society and/or by the passage of time; Permanently restricted net assets—net assets subject to donor-imposed stipulations that they be maintained permanently by the Society. Generally, the donors permit the Society to use all or part of the income earned on related investments for various Society awards.

2—Investments

Investments are carried at fair value and are generally held until maturity. Investments in real estate are carried at cost.

Investment income and realized and unrealized net gains and losses on investments of permanently restricted net assets are reported as follows: as increases or decreases in temporarily restricted net assets if the terms of the gift impose restrictions on the use of the income and/or net gains; as increases or decreases in unrestricted net assets in all other cases.

Investments, other than real estate, are stated at fair value, as determined by quoted market prices provided by investment managers, and consist of the following as of December 31, 2007:

Money market funds.....	\$339,068
Equity mutual funds.....	3,816,559
Short-term corporate fund.....	198,468
Certificates of deposit	1,945,339
Corporate and US bonds.....	1,121,190
Accrued Interest receivable.....	25,085
Real Estate (ECS Holdings LLC)	3,060,670
Total.....	\$10,506,379

3—ECS Holdings LLC

ECS Holdings LLC leases office space to various tenants under operating lease arrangements expiring through 2019. (Rental income under aforementioned leases totaled \$389,695 for the year ended December 31, 2007.)

4—Independent Accounting Firm

The Society engaged the services of the independent accounting firm, Noble & Noble LLP, to conduct the 2007 annual audit of the financial statements of The Electrochemical Society and subsidiary as of December 31, 2007. The audit report will be distributed when complete.

5—Report of the ECS Audit Subcommittee

The ECS Audit Subcommittee provides oversight of The Electrochemical Society's financial reporting process on behalf of the Board of Directors. Management (ECS Staff Directors and Officers) is responsible for the financial statements and the financial reporting process, including the system of internal control. In fulfilling its oversight responsibilities, the Subcommittee discussed the financial statements in the annual report with management, including a discussion of the quality, not just the acceptability, of the accounting principles; the reasonableness of significant judgments; and the clarity of disclosures in the financial statements.

The members of the Financial Policy Advisory Subcommittee in 2007 were: William D. Brown (Chair), Ralph J. Brodd, John S. Newman, Peter S. Fedkiw, and John R. Susko.

The ECS Audit Subcommittee discussed with the Society's independent auditors the overall scope and plans for their respective audits. The Subcommittee meets with the independent auditors, with and without management present, to discuss the results of their examinations, their evaluations of the Society's internal control, compliance with laws and regulations, and the overall quality of the Society's financial reporting.

The ECS Audit Subcommittee will recommend for acceptance to the Board of Directors the audited financial statements for the year ended December 31, 2007. The Subcommittee will also recommend the retention of Noble & Noble LLP as the Society's independent auditors for the year ending December 31, 2008.

ECS donors

The following individuals and corporations have made gifts to ECS. We thank them for their generous support of the Society.

\$10,000 Level

Fondazione Oronzio de
Nora Casella
Bob G. Gower
SES Research

\$5,000 Level

Katalin Voros
Wayne L. Worrell

Centennial Club

Kuzhikalail M. Abraham
James A. Amick
Karl Kadish
Larry Faulkner
Mangai Srinivasan

Benefactors

Yoshio Abe
Charles E. Allman
Marc A. Anderson
Mirdash Bakalli
Robert Bakish
Giuseppe Baldacchini
BCS Fuel Cells, Inc.
Seward E. Beacom
Klaus D. Beyer
Rajaram Bhat
Nick Birbilis
John M. Blocher
Charles K. Bon
Leonard J. Borucki
William D. Brown
Richard P. Buck
Kathryn Bullock
Roque J. Calvo
Stephen Campbell
Michael K. Carpenter
Stanley Chait
Babu R. Chalamala
On Kok Chang
Ke Zhong Chen
Mao-Chieh Chen
Jing-Yih Cherng
Herng-Der Chiou
Paul A. Christian
Wonsub Chung
Vasile V. Cosofret
David A. Costa
Ernest E. Criddle
Jinxiang Dai

Charles Davidoff
Jimmy L. Davidson
Despina Davis
Giovanni Davolio
Frank A. De Bruijn
Sheldon W. Dean
Thomas DeVore
Howard D. Dewald
George A. Di Bari
Francesco Di Quarto
David L. Douglas
Paul F. Duby
Ronald E. Enstrom
Tom Fahidy
Logan Fan
Peter Fedkiw
James M. Fenton
Robert Fleischmann
Gerald S. Frankel
Ingrid Fritsch
Hiroyuki Fujimori
Shunichi Fukuzumi
Fernando H. Garzon
Sorab K. Ghandhi
Hussein Gharibi
Harry Gibson
Shimshon Gottesfeld
Arthur H. Graham
Morris P. Grotheer
Ronald A. Guidotti
Elod L. Gyenge
Herman N. Hammer
James S. Harris
James E. Hawkey
Juan Haydu
Adam Heller
Robert Herring
Dennis W. Hess
Michael S. R. Heynes
Fumio Hine
W. Jean Horkans
Howard R. Huff
Charles L. Hussey
Cheol Seong Hwang
Igor Igumenov
Hiroshi Imahori
Arnold O. Isenberg
Henry F. Ivey
Yih Song Jan
Jin Jang
Judith A. Jeevarajan

H. W. Kalweit
Takako Kaneko
Yasushi Kanzaki
Bradley R. Karas
Kazuhisa Kawano
Martin W. Kendig
Leslie William Kennedy
Peter F. King
Heinrich F. Klefenz
Harry N. Knickle
Sumio Kobayashi
Takeshi Kobayashi
Yoshiaki Kobuke
Masako Koderá
Paul A. Kohl
Bernd O. Kolbesen
Yoshio Kondo
Toshihiro Kondo
Nobuyoshi Koshida
Hizuru Koshina
Zlata Kovac
Nicolay Kovarsky
Ward G. Koyama
Simeon J. Krumbein
Jimmy CW Kwok
Wen Chen Lai
Harvie H. Lee
Ching Chich Leu
John W. Lincoln
Qingguo Liu
Yi-Kuang Liu
George W. Luckey
David A. Lupfer
Enn Lust
Digby D. Macdonald
Marcin Majda
Marek Marcinek
Frederick Leon Marsh
Nicholas J. Maskalick
James McBreen
Edward McCafferty
James A. McCafferty
Kenneth L. Menningen
Slavko V. Mentus
Sven Metzger
Barry Miller
Naoto Miyake
Tsutomu Miyasaka
Thomas Polk Moffat
Bela K. Molnar
Boris Monahov

Theodore D. Moustakas
Mohammad S. Mubarak
Rolf H. Muller
Alexander P. Murray
Akio Nakamura
Takao Nagatomo
John S. Newman
Margie May Nicholson
Yoshio Nishi
Hideyuki Noguchi
George F. Nordblom
Donald B. Nuzzio
Kenji Ogisu
Yasuhiko Ohsawa
John P. Olatta
Colin W. Oloman
Yasuhisa Omura
Keng-Liang Ou
Boone B. Owens
Lyuji Ozawa
John-Hee Park
Jean Louis Pascal
S. J. Pearton
Erik Pell
Fu-Jann Pern
William R. Pitner
William A. Pliskin
Mark D. Pritzker
Krishnan Rajeshwar
Robert A. Rapp
Anthony Arthur Reidlinger
Arnold Reisman
Rathburn K. Rhodes
Howard H. Rogers
Sudipta Roy
Mamoru Saito
Keith Y. Sasaki
David I. Schuster
Geraldine Cogin Schwartz
Morton Schwartz
John Robert Scully
Tae-Yeon Seong
Gayatri Seshadri
Vijay Anand Sethuraman
Elena M. Shembel
Toshio Shibata
David A. Shifler
Hong Shih
Haruo M. Shimoda
Takahisa Shodai
Milton M. Silver

Drew Sinha
William H. Smyrl
Gerry Sorce
Phillip D. Stapleton
Morris A. Steinberg
Kurt H. Stern
Joseph R. Stetter
Peter Strasser
Mahendra Kumar Sunkara
John R. Susko
Yo-ichiro Suzuki
Koji Tachibana
Makoto Takahashi
Esther S. Takeuchi
Kazuhisa Tamura
Min Tan
Tohru Tanaka
Adam T. Timmons
Ken Tokunaga
Carl W. Townsend
Orlin D. Trapp
Sudhiranjan Tripathy
Forrest A. Trumbore
Isamu Uchida
Aiji A. Uchiyama
United Technologies
Research CTR
Francisco A. Uribe
Nikolai Uvarov
Petr Vanysek
Francisco Vicente
Wolf Vielstich
Igor Villarreal
Charles Richard Walk
Shao-Rong Wang
Gerald C. Whitnack
David P. Wilkinson
R. R. Witherspoon
Terence K. Wong
David L. Wood III
Hajime Yamamoto
Masamichi Yamashita
Shihe Yang
Shih-Chieh Yin
Liang-Tse Yu
Zong-Rang Zhang
Petr Zuman

ECS honor roll

Past Presidents of the Society

J. W. Richards.....	1902-1904	R. L. Baldwin.....	1938-1939	N. B. Hannay.....	1973-1974
H. S. Carhart.....	1904-1905	H. J. Creighton.....	1939-1940	D. A. Vermilyea.....	1974-1975
W. D. Bancroft.....	1905-1906	F. C. Mathers.....	1940-1941	T. R. Beck.....	1975-1976
C. Hering.....	1906-1907	R. R. Ridgway.....	1941-1942	M. J. Pryor.....	1976-1977
C. F. Burgess.....	1907-1908	E. M. Baker.....	1942-1943	D. N. Bennion.....	1977-1978
E. G. Acheson.....	1908-1909	R. M. Burns.....	1943-1944	D. R. Turner.....	1978-1979
L. H. Baekeland.....	1909-1910	S. D. Kirkpatrick.....	1944-1945	J. B. Berkowitz.....	1979-1980
W. H. Walker.....	1910-1911	W. R. Veazey.....	1945-1946	E. M. Pell.....	1980-1981
W. R. Whitney.....	1911-1912	W. C. Moore.....	1946-1947	R. J. Brodd.....	1981-1982
W. L. Miller.....	1912-1913	G. W. Heise.....	1947-1948	F. J. Strieter.....	1982-1983
E. F. Roeber.....	1913-1914	J. A. Lee.....	1948-1949	J. B. Wagner, Jr.....	1983-1984
F. A. Lidbury.....	1914-1915	A. L. Ferguson.....	1949-1950	P. C. Milner.....	1984-1985
L. Addicks.....	1915-1916	C. L. Faust.....	1950-1951	R. C. Alkire.....	1985-1986
F. A. J. FitzGerald.....	1916-1917	R. M. Hunter.....	1951-1952	R. E. Enstrom.....	1986-1987
C. G. Fink.....	1917-1918	J. C. Warner.....	1952-1953	F. G. Will.....	1987-1988
F. J. Tone.....	1918-1919	R. J. McKay.....	1953-1954	B. E. Deal.....	1988-1989
W. D. Bancroft.....	1919-1920	M. J. Udy.....	1954-1955	E. J. Cairns.....	1989-1990
W. S. Landis.....	1920-1921	H. H. Uhlig.....	1955-1956	J. M. Woodall.....	1990-1991
A. Smith.....	1921-1922	H. Thurnauer.....	1956-1957	L. R. Faulkner.....	1991-1992
C. G. Schluenderberg.....	1922-1923	N. Hackerman.....	1957-1958	W. L. Worrell.....	1992-1993
A. T. Hinckley.....	1923-1924	S. Swann.....	1958-1959	R. P. Frankenthal.....	1993-1994
H. C. Parmelee.....	1924-1925	W. C. Gardiner.....	1959-1960	J. A. Amick.....	1994-1995
F. M. Becket.....	1925-1926	R. A. Schaefer.....	1960-1961	K. R. Bullock.....	1995-1996
W. Blum.....	1926-1927	H. B. Linford.....	1961-1962	D. W. Hess.....	1996-1997
S. C. Lind.....	1927-1928	F. L. LaQue.....	1962-1963	B. Miller.....	1997-1998
P. J. Kruesi.....	1928-1929	W. J. Hamer.....	1963-1964	G. M. Blom.....	1998-1999
F. C. Frary.....	1929-1930	L. I. Gilbertson.....	1964-1965	D. E. Hall.....	1999-2000
L. Kahlenberg.....	1930-1931	E. B. Yeager.....	1965-1966	C. M. Osburn.....	2000-2001
B. Stoughton.....	1931-1932	H. J. Read.....	1966-1967	J. Talbot.....	2001-2002
R. A. Witherspoon.....	1932-1933	H. C. Gatos.....	1967-1968	K. Spear.....	2002-2003
J. Johnston.....	1933-1934	I. E. Campbell.....	1968-1969	B. Scrosati.....	2003-2004
H. S. Lukens.....	1934-1935	N. C. Cahoon.....	1969-1970	R. Susko.....	2004-2005
J. H. Critchett.....	1935-1936	C. W. Tobias.....	1970-1971	W. Smyrl.....	2005-2006
D. A. MacInnes.....	1936-1937	C. V. King.....	1971-1972	Mark Allendorf.....	2006-2007
W. G. Harvey.....	1937-1938	T. D. McKinley.....	1972-1973		

Past Secretaries of the Society

C. Hering.....	1902	R. M. Burns.....	1947-1949	F. A. Trumbore.....	1980-1984
C. J. Reed.....	1902-1904	H. B. Linford.....	1949-1959	J. A. Amick.....	1984-1988
S. S. Sadtler.....	1904-1907	I. E. Campbell.....	1959-1965	E. W. Brooman.....	1988-1992
J. W. Richards.....	1907-1921	R. F. Bechtold.....	1965-1968	J. McBreen.....	1992-1996
C. G. Fink.....	1921-1947	D. R. Turner.....	1968-1974	R. Susko.....	1996-2000
		P. C. Milner.....	1974-1980	P. Natsihan.....	2000-2004

Past Treasurers of the Society

P. G. Salom.....	1902-1920	L. I. Gilbertson.....	1955-1961	R. P. Frankenthal.....	1986-1990
F. A. Lidbury.....	1920-1924	E. G. Enck.....	1961-1964	R. E. White.....	1990-1994
A. Smith.....	1924-1931	R. H. Schaefer.....	1964-1967	W. M. Bullis.....	1994-1997
R. M. Burns.....	1931-1943	R. H. Cherry.....	1967-1973	Y. H. Wong.....	1997-1998
W. W. Winship.....	1943-1949	F. J. Strieter.....	1973-1976	W. D. Brown.....	1998-2002
E. G. Widell.....	1949-1955	J. L. Griffin.....	1976-1982	P. Fedkiw.....	2002-2006
		J. Kruger.....	1982-1986		

ANNUAL REPORT



Edward Goodrich Acheson Award

E. G. Acheson.....	1929
E. F. Northrup.....	1931
C. G. Fink.....	1933
F. J. Tone.....	1935
F. M. Becket.....	1937
F. C. Frary.....	1939
C. F. Burgess.....	1942
W. Blum.....	1944
H. J. Creighton.....	1946
D. A. MacInnes.....	1948
G. W. Vinal.....	1950
J. W. Marden.....	1952
G. W. Heise.....	1954
R. M. Burns.....	1956
W. J. Kroll.....	1958
H. B. Linford.....	1960
C. L. Faust.....	1962
E. A. Gulbransen.....	1964
W. C. Vosburgh.....	1966
F. L. LaQue.....	1968
S. Ruben.....	1970
C. W. Tobias.....	1972
C. V. King.....	1974
N. B. Hannay.....	1976
D. A. Vermilyea.....	1978
E. B. Yeager.....	1980
H. C. Gatos.....	1982
N. Hackerman.....	1984
E. M. Pell.....	1986
H. H. Uhlig.....	1988
T. R. Beck.....	1990
D. R. Turner.....	1992
J. B. Wagner, Jr.....	1994
R. C. Alkire.....	1996
J. M. Woodall.....	1998
L. R. Faulkner.....	2000
B. Deal.....	2002
W. L. Worrell.....	2004
V. de Nora.....	2006



Olin Palladium Medal Award

(formerly the Palladium Medal Award, 1951-1977)

C. W. Wagner.....	1951
N. H. Furman.....	1953
U. R. Evans.....	1955
K. F. Bonhoeffer.....	1957
A. N. Frumkin.....	1959
H. H. Uhlig.....	1961
N. Hackerman.....	1965
P. Delahay.....	1967
T. P. Hoar.....	1969
L. Brewer.....	1971
V. G. Levich.....	1973
M. J. N. Pourbaix.....	1975
H. Gerischer.....	1977

R. Parsons.....	1979
I. M. Kolthoff.....	1981
M. Cohen.....	1983
M. Fleischmann.....	1985
A. J. Bard.....	1987
B. E. Conway.....	1989
J. Newman.....	1991
J.-M. Savéant.....	1993
J. Kruger.....	1995
R. W. Murray.....	1997
J. B. Goodenough.....	1999
N. Sato.....	2001
E. Gileadi.....	2003
R. Rapp.....	2005
Sergio Trasatti.....	2007



Gordon E. Moore Medal for Outstanding Achievement in Solid-State Science and Technology

(formerly the Solid State Science & Technology Award, 1973-2005)

W. G. Pfann.....	1973
H. C. Gatos.....	1975
R. N. Hall.....	1977
M. B. Panish.....	1979
G. L. Pearson.....	1981
N. Holonyak, Jr.....	1983
J. M. Woodall.....	1985
A. Y. Cho.....	1987
J. F. Gibbons.....	1989
J. D. Plummer.....	1991
B. E. Deal.....	1993
W. L. Worrell.....	1995
K. E. Spear.....	1997
I. Akasaki.....	1999
A. Reisman.....	2001
R. B. Fair.....	2003
D. Hess.....	2005
Tak H. Ning.....	2007



Vittorio de Nora Award in Electrochemical Engineering and Technology

(formerly the Electrochemical Science and Technology Award, 1974-1977)

A. Brenner.....	1974
R. B. MacMullin.....	1976
F. T. Bacon.....	1978
H. B. Beer.....	1980
J. C. Schumacher.....	1982
D. E. Danly.....	1984
K. Kordesch.....	1986
A. Heller.....	1988
C. W. Tobias.....	1990
E. B. Yeager.....	1992
L. T. Romankiw.....	1994

R. Baboian.....	1996
W. G. Grot.....	1998
D. R. Turner.....	2000
R. C. Alkire.....	2004
F. Mansfeld.....	2006



Carl Wagner Memorial Award

A. J. Bard.....	1981
G. C. Wood.....	1983
R. C. Alkire.....	1985
R. W. Murray.....	1987
W. L. Worrell.....	1989
D. D. Macdonald.....	1991
J. Jorné.....	1993
B. R. MacDougall.....	1995
M. J. Weaver.....	1997
C. R. Martin.....	1999
P. A. Kohl.....	2001
R. M. Crooks.....	2003
J. Hupp.....	2005
F. Mansfeld.....	2006
Philip N. Bartlett.....	2007



Henry B. Linford Award for Distinguished Teaching

C. W. Tobias.....	1982
B. E. Conway.....	1984
A. J. Bard.....	1986
L. Brewer.....	1988
J. Newman.....	1990
K. Nobe.....	1992
J. O'M. Bockris.....	1994
T. C. Franklin.....	1996
R. A. Rapp.....	1998
G. Stoner.....	2000
D. Peters.....	2002
R. M. Latanision.....	2004
D. Pletcher.....	2006

Honorary Members

Charles F. Chandler.....	1919
Edgar F. Smith.....	1919
Carl Hering.....	1922
Edward G. Acheson.....	1923
Wilder D. Bancroft.....	1925
Edward Weston.....	1926
Thomas A. Edison.....	1928
W. Lash Miller.....	1929
Edward Dean Adams.....	1930
Charles F. Burgess.....	1932
Frederick M. Becket.....	1934
L. H. Baekeland.....	1936
Robert A. Witherspoon.....	1940
Archer E. Wheeler.....	1941

(Honory Members continued))

W. R. Whitney	1944
Paul J. Kruesi	1944
Colin G. Fink	1946
Oliver W. Brown	1946
John W. Marden	1947
William Blum	1953
Robert M. Burns	1959
George W. Heise	1959
Frank C. Mathers	1959
Stanislaus Skowronski	1962
Oliver W. Storey	1962
A. Kenneth Graham	1963
Howard A. Acheson	1971
Charles L. Faust	1971
Cecil V. King	1973
Herbert H. Uhlig	1973
Norman Hackerman	1973
Henry B. Linford	1974
Sherlock Swann	1974
Ernest G. Enck	1975
W. C. Gardiner	1975
Ivor E. Campbell	1976
Ernest B. Yeager	1977
David A. Vermilyea	1977
Charles W. Tobias	1977
Harry C. Gatos	1978
Ralph M. Hunter	1979
Dennis R. Turner	1980
Henry F. Ivey	1980
Walter J. Hamer	1980
Michael J. Pryor	1981
Francis L. LaQue	1981
N. Bruce Hannay	1982
Theodore R. Beck	1982
Vittorio de Nora	1982
John L. Griffin	1983
Erik M. Pell	1983
Samuel Ruben	1983
Paul C. Milner	1986
Harold J. Read	1986
Forrest A. Trumbore	1986
Douglas N. Bennion	1987
Ralph J. Brodd	1987
Jerome Kruger	1987
Glenn W. Cullen	1990
James C. Acheson	1990
Richard C. Alkire	1991
Bertram Schwartz	1991
J. Bruce Wagner, Jr.	1991
V. H. Branneky	1991
R. S. Karpiuk	1996
F. J. Strieter	1996
W. L. Worrell	1996
Barry Miller	1999
Jefferson Cole	2001
L. Faulkner	2003
R. Frankenthal	2003
L. Romankiw	2003
Gordon E. Moore	2007
John S. Newman	2007
Jerry M. Woodall	2007

Honorary Associate Members

Mrs. Colin G. Fink

Fellows of The Electrochemical Society

Allen J. Bard	1990
Robert B. Comizzoli	1990
Glenn W. Cullen	1990
Theodore I. Kamins	1990
Paul C. Milner	1990
Edward H. Nicollan	1990
Robert A. Osteryoung	1990
Arnold Reisman	1990
Lubomyr T. Romankiw	1990
Geraldine C. Schwartz	1990
Ben G. Streetman	1990
J. Bruce Wagner, Jr.	1990
Theodore R. Beck	1991
Elton J. Cairns	1991
Bruce E. Deal	1991
Werner Kern	1991
William A. Pliskin	1991
Charles W. Tobias	1991
Rolf Weil	1991
Richard C. Alkire	1992
Vittorio de Nora	1992
Jerome Kruger	1992
Barry Miller	1992
Dennis R. Turner	1992
Jerry M. Woodall	1992
Richard P. Buck	1993
Larry R. Faulkner	1993
Dennis W. Hess	1993
Vik J. Kapoor	1993
Rolf H. Muller	1993
Carlton M. Osburn	1993
Robert A. Rapp	1993
George L. Schnable	1993
Y. H. Wong	1993
Petr Zuman	1993
George K. Celler	1994
Sung-Nee George Chu	1994
John P. Dismukes	1994
Richard B. Fair	1994
Adam Heller	1994
Richard A. Oriani	1994
Boone B. Owens	1994
Wayne L. Worrell	1994
Fred Anson	1995
Laurence D. Burke	1995
Brian E. Conway	1995
Robert P. Frankenthal	1995
Karl M. Kadish	1995
Digby D. Macdonald	1995
Gleb Mamantov	1995
Florian Mansfeld	1995
Royce W. Murray	1995
John Newman	1995
Yutaka Okinaka	1995
Howard W. Pickering	1995
George Rozgonyi	1995
Mordechay Schlesinger	1995
Karl E. Spear	1995
John M. Blocher, Jr.	1996
Hans K. Böhni	1996
Der-Tau Chin	1996
Hugh Isaacs	1996
Wolfgang J. Lorenz	1996
S. J. Pearton	1996
Subhash C. Singhal	1996
Venkataraman Swaminathan	1996
James A. Amick	1997
Denis Noel Buckley	1997
Eliezer Gileadi	1997
Michel J. Froment	1997
Koji Hashimoto	1997
Chung-Chiun Liu	1997
Edward McCafferty	1997
Theodore D. Moustakas	1997
Shyam P. Muraka	1997
Stella W. Pang	1997
Joachim Walter Schultze	1997
James D. Sinclair	1997
Norman L. Weinberg	1997
Lawrence Young	1997
Huk Y. Cheh	1998
Donald E. Danly	1998
Dennis H. Evans	1998
Fumio Hine	1998
Dennis C. Johnson	1998
Zoltan Nagy	1998
Katsumi Niki	1998
Jun-ichi Nishizawa	1998
Fan Ren	1998
Antonio J. Ricco	1998
David A. Shores	1998
William H. Smyrl	1998
George Thompson	1998
Eric Brooman	1999
Stanley Bruckenstein	1999
Kathryn Bullock	1999
Shimshon Gottesfeld	1999
Yue Kuo	1999
Dieter Landolt	1999
Jerzy Ruzyllo	1999
Norio Sato	1999
Ralph White	1999
William Yen	1999
Cammy Abernathy	2000
Kuzhikalail M. Abraham	2000
John C. Angus	2000
W. Ronald Fawcett	2000
David S. Ginley	2000
Yasuhiko Ito	2000
Howard Huff	2000
Robert F. Savinell	2000
Roger Staehle	2000
Charles W. Struck	2000
Sergio Trasatti	2000
Dieter M. Kolb	2001
David J. Lockwood	2001
James McBreen	2001
Patrick J. Moran	2001
Shohei Nakahara	2001
William E. O'Grady	2001
Supramanian Srinivasan	2001
Mark Allendorf	2002
William Brown	2002
Cor Claeys	2002
Martin Kendig	2002
Kim Kinoshita	2002
Paul Kohl	2002
Zempachi Ogumi	2002
Tetsuya Osaka	2002
Krishnan Rajeshwar	2002
Israel Rubinstein	2002
Sigeru Torii	2002
Toshio Shibata	2002
Sorin Cristoloveanu	2002
David Duquette	2003

(continued on next page)

ANNUAL REPORT

(Fellows continued))

Peter Fedkiw	2003
Charles Hussey	2003
Richard McCreery	2003
Frank McLarnon	2003
Robin Susko	2003
Darrel Untereker	2003
Osamu Yamamoto	2003
G. T. Burstein	2004
C. Clayton	2004
G. Davis	2004
M. J. Deen	2004
S. Fonash	2004
M. Meyyappan	2004
J. F. Rusling	2004
M. Seo	2004
M. Shur	2004
J. Simonet	2004
M. Stratmann	2004
J. Talbot	2004
M. S. Whittingham	2004
R. Adzic	2005
J. Davidson	2005
T. Hattori	2005
J. P. Leburton	2005
P. Marcus	2005
C. Martin	2005
P. Natishan	2005
D. Pletcher	2005
B. Scrosati	2005
J. Scully	2005
R. Singh	2005
H. H. Strehblow	2005
M. Williams	2005
A. Baca	2006
S. Bandyopadhyay	2006
T. Fahidy	2006
G. Frankel	2006
C. Jagadish	2006
N. Koshida	2006
J. Lessard	2006
H. Massoud	2006
H. Yokokawa	2006
B. MacDougall	2006
M. Orazem	2006
D. Misra	2006
A. Virkar	2006
A. Wieckowski	2006
Simon S. Ang	2007
Viola Birss	2007
Marc Cahay	2007
James M. Fenton	2007
Dennis G. Peters	2007
Daniel A. Scherson	2007
Eric D. Wachsman	2007

Edward G. Weston Summer Fellowship

(formerly the Edward G. Weston Fellowship, 1930-1945)

E. B. Sanigar	1930
K. Solliner	1931
M. E. Fogle	1932
R. D. Blue	1933
P. A. Jacquet	1934
M. A. Coler	1935
H. B. Linford	1936
G. L. Putnam	1937
V. de Nora	1938

W. P. Ruemmer	1940
R. E. Black	1941
W. E. Roake	1942
R. D. Misch	1947
M. T. Simnad	1948
R. L. Brubaker	1961
D. Yohe	1962
H. O. Daley, Jr.	1963
M. D. Hawley	1964
T. G. McCord	1965
J. D. McLean	1966
K. B. Prater	1967
K. Doblhofer	1968
L. R. Faulkner	1969
W. J. Horkans	1970
W. J. Horkans	1971
W. J. Bover	1972
B. J. Alexander	1973
S. S. Fratoni, Jr.	1974
M. Suchanski	1975
R. J. Nowak	1976
P. A. Kohl	1977
C. D. Jaeger	1978
L. Bottomley	1979
G. L. McIntire	1980
J. Pemberton	1981
M. E. Kordes	1982
R. G. Tompson	1983
P. M. Kovach	1984
J. N. Harb	1985
S. E. Creager	1986
X. Zhang	1987
C. Amass	1988
R. J. Phillips	1989
J. E. Franke	1990
S. R. Snyder	1991
P. Pantano	1992
G. J. Edens	1993
B. Idriss	1994
D. Bizzotto	1995
L. A. Lyon	1996
C. Claypool	1997
B. Bath	1998
A. C. Templeton	1999
P. W. Wuelfing	2000
K. Balss	2001
T. Hu	2002
J. Mauzeroll	2003
J. Seegmiller	2004
E. Blair	2005
F. Laforge	2006
Alex G. Güell	2007

Colin Garfield Fink Summer Fellowship

P. Brown	1962
W. G. Lemmermann	1963
W. G. Stevens	1964
J. P. Carney	1965
S. Piekarski	1966
B. S. Pons	1967
R. E. Bonewitz	1968
L. Papouchado	1969
R. G. Reed	1970
R. Fike	1971
D. L. McAllister	1972
R. R. Chance	1973
P. I. Lee	1974
J. B. Flanagan	1975

J. S. Hammond	1976
P. D. Tyma	1977
S. M. Wilhelm	1978
J. D. Porter	1979
R. S. Glass	1980
E. E. Bancroft	1981
T. D. Cabeika	1982
B. L. Wheeler	1983
E. T. T. Jones	1984
D. A. Van Galen	1985
J. S. Hanson	1986
P. Gao	1987
D. T. Schwartz	1988
A. E. Russell	1989
J. Xue	1990
C. K. Rhee	1991
M. J. Shane	1992
C. M. Pharr	1993
J. M. Lauerhaus	1994
S. M. Hendrickson	1995
J. C. Hutchinson	1996
P. V. A. Pamidi	1997
G. S. Hwang	1998
W. Baker	1999
A. Crown	2000
R. Maus	2001
S. Peper	2002
M. Alpuche-Aviles	2003
A. Mugweru	2004
G. Lica	2005
A. Martinson	2006
Prabeer Barpanda	2007

Joseph W. Richards Summer Fellowship

V. E. Hauser, Jr.	1960
M. J. Schaer	1961
R. E. Visco	1961
A. K. Postma	1962
C. C. Liu	1963
M. J. Vasile	1964
M. J. Vasile	1965
C. C. Liu	1966
B. N. Baron	1967
L. P. Zajicek, Jr.	1968
K. R. Bullock	1969
S. H. Cadle	1970
J. W. Webb	1971
C. P. Keszthelyi	1972
M. Shabrang	1973
D. H. Karweik	1974
T. P. DeAngelis	1975
D. L. Feke	1976
H. Faulkner	1977
D. M. Novak	1978
B. R. Karas	1979
R. M. Cohen	1980
R. N. Dominey	1981
R. M. Ianniello	1982
D. F. Tessier	1983
N. T. Sleszynski	1984
C. M. Lieber	1985
J. L. Valdes	1986
R. Q. Bligh	1987
D. W. Conrad	1988
S. A. Schofield	1989
J. A. Roberts	1990

(continued on next page)

(Joseph W. Richards Summer Fellowship continued)

M. S. Freund	1991
L. Gao	1992
H. Gasteiger	1993
J. Schoer	1994
S. Morin	1995
N. Madigan	1996
S. Petrovic	1997
J. J. Sumner	1998
A. Wijayawardhana	1999
B. Liu	2000
C. Noble	2001
C. B. France	2002
P. Ramadass	2003
J. Carroll	2004
K. Salaita	2005
J. Breger	2006
Sadagopan Krishnan	2007

F. M. Becket Summer Fellowship*(formerly the F. M. Becket Memorial Award 1962-1999)*

R. B. Johnson	1962
J. K. Johnstone	1964
K. Lehman	1966
H. K. Bowen	1967
T. E. Parker	1971
G. M. Crosbie	1973
N. A. Godshall	1975
J. D. Hodge	1977
W. Cheng	1979
P. Davies	1981
P. A. Barron	1983
G. J. Miller	1985
M. Rosenbluth	1987
J. D. Cotton	1989
J. Philliber	1991
P. Agarwal	1993
H. C. Slade	1995
K. S. Weil	1997
G. S. Hwang	1999
J. Parrish	2001
S. Wasileski	2002
E. Clark	2003
F. Deng	2004
S. Harrison	2005
Y. Yang	2006
Michael Orthner	2007

Energy Research Summer Fellowship*(supported by the U.S. Department of Energy)*

M. R. Deakin	1985
P. B. Johnson	1985
D. A. La Hurd	1985
S. E. Morris	1985
D. P. Wilkinson	1985
D. G. Frank	1986
K.-C. Ho	1986
R. G. Kelly	1986
I.-H. Yeo	1986
J. Kwak	1986
L. C. Dash	1987
S. A. Naftel	1987
T. R. Nolen	1987
D. Schwartz	1987

T. H. Wong	1987
S. D. Fritts	1988
D. A. Koos	1988
D. A. Hazlebeck	1988
M. O. Schloh	1988
S. S. Perine	1988
J. E. Baur	1989
C.-P. Chen	1989
D. W. Eng	1989
R. L. McCarley	1989
C. J. Murphy	1989
C. K. Nguyen	1990
I.-H. Oh	1990
T. G. Strein	1990
J. W. Weidner	1990
S. E. Gilbert	1990
C. S. Johnson	1991
H. Huang	1991
D. R. Lawson	1991
B. D. Pendley	1991
C. C. Streinz	1991
P. A. Connick	1992
A. C. Hillier	1992
D. L. Taylor	1992
K. K. Lian	1992
T. T. Nadasdi	1992
D. G. Jensen	1993
J. C. Bart	1993
G. Seshadri	1993
J. A. Poirier	1993
K. W. Vogt	1993
Z. Shi	1994
C.-C. Hsueh	1994
V. A. Adamian	1994
K. M. Maness	1994
K. M. Richard	1994
Y.-E. Sung	1995
J. C. Conboy	1995
L. A. Zook	1995
W. R. Everett	1995
H. Zhang	1995
S. Grabtchak	1996
J.-B. Green	1996
S. Motupally	1996
C. Nasr	1996
S. Nayak	1996
K. Hu	1997
M. E. Williams	1997
A. Zolfaghari	1997
C. R. Horne	1997
G. K. Jennings	1997
M. Zhao	1998
S. Sriramulu	1998
J. Ritchie	1998
M. A. Elhamid	1998
S. Zou	1998
K. Cooper	2000
K. Grant	2000
D. Hansen	2000
J. F. Hicks	2000
Z. Liu	2000

Oronzio de Nora Industrial Electrochemistry Fellowship

N. Mano	2004
N. Mano	2005
N. Mano	2006
Vijayasekaran Boovaragavan	2007

Norman Hackerman Young Author Award*(formerly the Young Authors Prize, 1929-1988)*

W. C. Gardiner	1929
D. K. Alpern	1930
F. L. Jones	1931
F. W. Godsey, Jr.	1932
B. L. Bailey	1933
J. R. Heard, Jr.	1934
U. B. Thomas, Jr.	1935
W. A. Johnson	1936
R. S. Soanes	1937
N. B. Nichols	1938
G. A. Moore	1939
J. S. Mackay	1940
E. Adler	1941
S. Speil	1942
W. G. Berl	1943
J. P. Coyle	1944
A. E. Hardy	1945
N. A. Nielsen	1946
H. Leidheiser, Jr.	1947
M. A. Streicher	1948
J. C. Griess, Jr.	1949
G. W. Murphy	1950
J. T. Byrne	1951
W. E. Kuhn	1952
J. Halpern	1953
M. J. Pryor	1954
M. Stern	1955
R. S. Cooper	1956
P. Ruetschi	1957
M. Stern	1958
F. A. Posey	1959
A. C. Makrides	1960
J. D. Newson	1961
M. J. Dignam	1962
J. A. Cunningham	1963
R. E. Westerman	1964
R. E. Visco	1965
J. Newman	1966
H. W. Pickering	1967
G. G. Charette	1968
G. Dryhurst	1969
J. Newman	1969
W. R. Parrish	1969
A. J. Appleby	1970
D. C. Johnson	1970
D.-T. Chin	1971
M. S. Whittingham	1971
M. A. Hopper	1972
F. Kuhn-Kuhnenfeld	1972
M. J. Bowden	1973
L. Thompson	1973
D. Simonsson	1973
S. H. Cadle	1974
A. D. Dalvi	1974
L. R. Faulkner	1975
S. Solmi	1975
P. Negrini	1975
B. MacDougall	1976
S. K. Ubhayakar	1976
C. W. Manke	1977
W. J. Horkans	1977
A. G. Gonzalez	1978

(continued on next page)

ANNUAL REPORT

(Young Author Award continued)

C. H. Tsang	1978
D. A. Antoniadis	1978
D. Y. Wang	1979
C. W. Magee	1979
E. Takayama	1980
H. Reller	1980
W. J. P. Van Enkevort	1981
M. W. M. Graef	1981
C. Y. Chao	1981
L. F. Lin	1981
D. W. Sittari	1982
T. P. Chow	1982
P. G. Pickup	1983
K. F. Jensen	1983
D. B. Graves	1983
N. A. Godshall	1984
E. K. Broadbent	1984
J. C. Farmer	1985
G. S. Oehrlein	1985
J. Richer	1986
T. Tanaka	1986
C. P. Wilde	1987
P. N. Bartlett	1987
J. Maier	1987
J. A. Bardwell	1988
C.-J. Han	1988
A. E. Husser	1989
D. H. Craston	1989
J. M. Rosamilia	1989
J. H. Comfort	1989
M. W. Verbrugge	1990
C. J. Giunta	1990
T. J. Mountziaris	1991
J. V. Cole	1991
D. W. Suggs	1991
B. W. Gregory	1991
D. B. Bonham	1992
E. S. Aydil	1992
P. P. Apte	1993
A. West	1993
H. A. Gasteiger	1994
F. R. Myers	1994
R. Vidal	1995
G. D. Papasouliotis	1995
J. H. Nordlien	1996
J. Lee	1996
A. K. Padhi	1997
S. M. Han	1997
A. D. Robertson	1998
Y. Shao-Horn	1998
S. R. Kaluri	1998
A. Bautista	1999
P. A. O'Neil	1999
R. T. Leah	2000
J. W. Klaus	2000
J. F. Whitacre	2001
P. Feichtinger	2001
T. J. Pricer	2002
P. S. Lee	2002
K. Jambunathan	2003
S. Noda	2003
M. Miyamoto	2003
R. Akolkar	2004
Y.-K. Hong	2004
R. Akolkar	2005
Y. K. Hong	2005
M. Kunitatsu	2006

S. Borini	2006
Steffen Eccarius	2007
A. T. J. van Niftrik	2007

Turner Book Prize

S. Speil	1942
W. G. Berl	1943
J. P. Coyle	1944
J. T. Waber	1945
B. Cartwright	1946
A. E. Hardy	1947
M. A. Streicher	1948
R. E. Hoeckelman	1949
P. Delahay	1950
K. H. Stern	1951
C. C. Templeton	1951
P. T. Gilbert	1952
R. B. Holden	1953
D. A. Vermilyea	1954
J. G. Jewell	1955
J. H. Westbrook	1956
A. C. Makrides	1957
J. P. Pemsler	1958
R. G. Carlson	1959
R. E. Meyer	1960
P. C. Milner	1960
H. Freitag	1961
P. J. Boddy	1962
E. J. Cairns	1963
M. Weinstein	1963
R. W. Bartlett	1964
E. M. Hofer	1965
C. S. Tedmon, Jr.	1966
F. P. Kober	1967
J. M. Hale	1968



Battery Division Student Research Award

J. R. Waggoner	1980
K. E. Yee	1980
W. A. van Schalkwijk	1981
C. Y. Mak	1986
T. I. Evans	1987
C. C. Streinz	1988
J. Weidner	1989
M. G. Lee	1990
E. J. Podlaha	1991
G. E. Gray	1992
D. Qu	1993
P. De Vidts	1994
S. Motupally	1995
J. Xu	1996
Y. Shao-Horn	1997
I. Courtney	1998
G.E. Rousse	1999
V. Srinivasan	2000
M. Zhao	2001
V. Subramaniam	2001
L. Fransson	2002
K.-W. Park	2003
A. Weber	2004
C. Delacourt	2005
K. Kang	2006
Feng Jiao	2007

Battery Division Research Award

J. J. Lander	1958
D. M. Smyth	1959
T. P. Dirkse	1962
F. G. Will	1964
J. Burbank	1966
C. P. Wales	1966
D. Tuomi	1968
Y. Okinaka	1970
A. C. Simon	1972
S. M. Caulder	1972
J. McBreen	1974
T. Katan	1976
S. Szpak	1976
A. Heller	1978
K. R. Bullock	1980
R. A. Huggins	1982
D. Pavlov	1984
G. H. J. Broers	1985
J. L. Devitt	1986
D. H. McClelland	1986
J. P. Gabano	1987
M. Armand	1988
J. Jorne	1989
A. N. Dey	1990
R. E. White	1991
D. N. Bennion	1992
E. Peled	1993
K. M. Abraham	1995
J. Dahn	1996
B. Scrosati	1997
C. Delmas	1999
J. B. Bates	2000
S. Wittingham	2002
K. Kinoshita	2003
J. Newman	2004
G. Ceder	2004
M. Thackeray	2005
T. Ohzuku	2006
Clare P. Grey	2007

Battery Division Technology Award

Y. Nishi	1994
K. Ozawa	1994
E. S. Takeuchi	1995
S. Gilman	1996
J.-M. Tarascon	1997
G. E. Blomgren	1998
A. Yoshino	1999
H. Y. Cheh	2000
B. B. Owens	2001
D. Wilkinson	2002
M. Winter	2002
J. Yamaki	2003
M. Yoshio	2003
M. Ue	2004
D. Aurbach	2005
P. Novak	2005
K. Lee	2006
Michel Broussely	2007



Corrosion Division H. H. Uhlig Award

(formerly the Outstanding Achievement Award of the Corrosion Division 1973-1983)

M. Cohen	1973
D. A. Vermilyea	1975
J. Kruger	1977
M. J. Pryor	1979
T. R. Beck	1981
N. Sato	1983
P. Kofstad	1985
H. W. Pickering	1987
R. P. Frankenthal	1989
H. Leidheiser	1991
H. Isaacs	1993
W. H. Smyrl	1995
M. J. Graham	1997
K. Hashimoto	1999
D. Macdonald	2001
F. Mansfeld	2002
C. Leygraf	2003
R. Newman	2004
P. Marcus	2005
G. T. Burstein	2006
Edward McCafferty	2007

Corrosion Division Morris Cohen Graduate Student Award

(formerly the Corrosion Division Award for Summer Study 1986-1988)

S. D. Scarberry	1986
C. C. Streinz	1987
R. Bianco	1988
M. A. Harper	1992
R. G. Buchheit	1993
J.-F. Yan	1994
B. V. Cockeram	1995
I. Odnevall	1996
D. G. Kolman	1997
C. S. Brossia	1998
M. Verhoff	1999
S. Yu	2000
S. F. Nitodas	2001
K. Cooper	2002
T. Ramgopal	2003
Q. Meng	2004
D. Chidambaram	2005
H. Tsuchiya	2006
Magnus Johnson	2007



Dielectric Science and Technology Division Thomas D. Callinan Award

J. A. Davies	1968
J. P. S. Pringle	1968
G. M. Sessler	1970
J. E. West	1970
C. A. Mead	1971
W. Kern	1972
J. R. Szedon	1973
C. M. Osburn	1975
T. W. Hickmott	1976

J. R. Ligenza	1977
R. Williams	1978
R. J. Kriegler	1979
B. E. Deal	1982
L. Young	1983
A. K. Sinha	1985
A. C. Adams	1986
S. P. Murarka	1987
R. B. Comizzoli	1988
E. A. Irene	1988
R. A. Levy	1989
M. H. Woods	1990
V. J. Kapoor	1991
S. I. Raider	1992
D. W. Hess	1993
Y.-H. Wong	1994
K. L. Mittal	1995
W. D. Brown	1996
J. P. Dismukes	1997
R. Singh	1998
A. Rohatgi	1999
K. Saraswat	2000
P. Ho	2001
J. Deen	2002
S. K. Banerjee	2003
A. G. Revesz	2003
S. Fonash	2004



Electrodeposition Division Research Award

W. Weil	1980
Y. Okinaka	1981
E. B.udevski	1982
R. C. Alkire	1983
L. T. Romankiw	1984
R. J. von Gutfeld	1984
J. W. Dini	1985
H. R. Johnson	1985
H. Leidheiser	1986
J. P. Hoare	1987
H. Y. Cheh	1988
D. S. Lashmore	1989
S. Nakahara	1990
T. C. Franklin	1991
R. E. White	1992
P. C. Andricacos	1993
M. J. Froment	1994
D. Landolt	1995
T. Osaka	1996
M. Schlesinger	1997
Madhav Datta	1998
R. Winand	1999
H. Honma	2000
D. Kolb	2002
J. Switzer	2003
J. Dukovic	2004
P. Bartlett	2005
T. P. Moffat	2006
Ibro Tabakovic	2007



Electronics and Photonics Division Award

F. A. Trumbore	1970
F. C. Palilla	1971
M. B. Panish	1972
W. A. Pliskin	1973
B. E. Deal	1974
H. M. Manasevit	1975
M. G. Craford	1976
A. Y. Cho	1977
C. M. Wolfe	1978
E. Sirtl	1979
J. M. Woodall	1980
G. A. Rozgonyi	1981
G. W. Cullen	1982
D. W. Shaw	1983
A. Reisman	1984
S.-M. Hu	1985
E. H. Nicollian	1986
B. Schwartz	1987
K. E. Bean	1988
T. Kamins	1989
D. M. Brown	1990
C. M. Osburn	1991
G. S. Oehrlein	1992
B. S. Meyerson	1993
G. K. Celler	1994
L. C. Kimerling	1995
H. Huff	1996
A. F. Tasch	1997
U. M. Gösele	1999
S. N. G. Chu	2000
S. P. Murarka	2001
S. Cristoloveanu	2002
T. Ohmi	2003
C. Claeys	2004
S. Pearton	2005
H. Massoud	2006
Yue Kuo	2007



Energy Technology Division Research Award

M. W. Verbrugge	1994
S. Srinivasan	1996
H. R. Kunz	1998
A. W. Czanderna	1999
R. Selman	2001
I. Uchida	2001
A. Nozik	2003
K. Kinoshita	2004
K. Kanamura	2005
S. Licht	2006
Radoslav Adzic	2007
Yang Kook Sun	2007

(continued on next page)



High Temperature Materials Division Outstanding Achievement Award

J. B. Wagner, Jr.	1986
W. L. Worrell	1988
R. A. Rapp	1990
H. Schmalzried	1992
S. C. Singhal	1994
C. G. Vayenas	1996
C. Bernard	2001
H. Yokokawa	2002
K. Spear	2004
A. Virkar	2006

High Temperature Materials Division J. B. Wagner, Jr. Young Investigator Award

S. Mohny	1999
S. M. Haile	2001
M. Swihart	2003
R. Mukundan	2005
Xiao-Dong Zhou	2007



Industrial Electrochemistry and Electrochemical Engineering Division New Electrochemical Technology (NET) Award

Asahi Glass Company	1999
DeNora Technologie	2005
E-Tek	2005
Bayer Material Science AG	2005
Ballard Power Systems	2007

Industrial Electrochemistry and Electrochemical Engineering Division H. H. Dow Memorial Student Achievement Award

R. Bakshi	1991
G. J. Yusem	1992
J. A. Poirier	1993
S. Siu	1994
M. Vreeke	1995
A. E. Thomas	1996
S. A. Leith	1997
P. Soo	1998
S. Sriramulu	1999
K. M. Jeerage	2000
A. L. Prieto	2001
W. He	2002
J. Zhang	2003
S. Basker	2004
V. Ramani	2005
Brenda L. Garcia-Diaz	2007
Minhua Shao	2007

Industrial Electrochemistry and Electrochemical Engineering Division Student Achievement Award

Y.-E. Sung	1995
J. K. N. Mbindyo	1996
C. A. Smith	1997
J. A. Drake	1998
R. Lowrey	1999
C. Arvin	2000
B. Djurfors	2001
V. Subramanian	2002
P. M. Gomadam	2003
I. AlNashef	2004



Luminescence and Display Materials Division Centennial Award

A. Meijerink	2004
A. Srivastava	2004
H. Guedel	2006



Organic and Biological Electrochemistry Division Manuel Baizer Memorial Award

T. Shono	1994
H. Lund	1996
H. Schäfer	1998
S. Torii	1998
J. Simonet	2000
J. Utley	2000
J. M. Savéant	2002
M. Tokuda	2004
D. Evans	2004
I. Nishiguchi	2006



Physical and Analytical Electrochemistry Division David C. Grahame Award

F. C. Anson	1983
J. Newman	1985
A. Heller	1987
M. J. Weaver	1989
B. Miller	1991
A. T. Hubbard	1993
R. M. Wightman	1995
D. M. Kolb	1997
P. N. Ross, Jr.	1999
D. A. Scherson	2001
A. Wieckowski	2003
H. White	2005
Joseph T. Hupp	2007

Physical and Analytical Electrochemistry Division Max Bredig Award in Molten Salt Chemistry

M. Blander	1987
G. P. Smith	1990
R. A. Osteryoung	1992
G. Mamantov	1994
N. Bjerrum	1996
H. A. Øye	1998
Y. Ito	1999
G. N. Papatheodorou	2002
M. Gaune-Escard	2004
J. Wilkes	2006



Sensor Division Outstanding Achievement Award

J. Janata	1994
R. P. Buck	1996
I. Lundström	1998
A. J. Ricco	2000
M. Aizawa	2002
N. Yamazoe	2004
W. Heineman	2006