

The Globalization of a Scientific Society

Although founded in the United States in 1902, The Electrochemical Society has had an international profile from its very beginning, with charter members from countries ranging from Australia to Mexico to Russia and points in between. Certainly the Society's scientific roots range far afield—to Italy (Volta), England (Faraday), and even to ancient Egypt.* In the past 20 years, the Society has made conscious and concerted efforts to extend its publications, meetings, and other services to the broadest reaches of our planet. Today, ECS continues to take advantage of the exponential growth in communication technology. ECS is able to support journal editors, Society and Division leaders, authors, members, and meeting participants from every corner of the globe, in just about the same manner as those who are just a few miles from ECS's headquarters. "Moore's law" is a concept known around the world, and ECS is proud to count Gordon Moore as a member. ECS was proud to be a part of the process of awarding the Perkin Medal, presented to Moore in 2004. Many other activities and events in 2004 show how commonplace our own global identity has become.



ECS member **GORDON MOORE** (center) received the 2004 Perkin Medal from the Society of Chemical Industry (SCI) America Section in September 2004. The medalist is chosen by a Jury of Award composed of officers from SCI and five other societies, including ECS. Also attending the award dinner were ECS President (2004-2005) **ROBIN SUSKO** (left) and ECS Past-President (1992-1993) **WAYNE WORRELL**.

Content Anytime, Anywhere

ECS successfully completed the implementation of its new online manuscript submission and peer review program (Peer X-Press or PXP). One of the most positive effects of using this Web-based software has been the Society's ability to attract and support editors all over the world. In 2004, the Society's Associate Editors were located in Austria, Canada, Ireland, Japan, the UK, as well as across the U.S. Authors and reviewers were also able to take advantage of this anytime, anywhere system.

The Society's rapid-publication, peer-reviewed journal—*Electrochemical and Solid-State Letters* (ESL)—which debuted in mid-1998, established its own Editorial Board in 2004. Dennis W. Hess, of the Georgia Institute of Technology (Georgia Tech) was named Editor. Paul A. Kohl, who had been serving as Editor for both journals, and who was responsible for the creation of ESL, continued on as Editor of the *Journal of The Electrochemical Society* (JES). The two journals held their first joint editorial board meeting in spring 2004.

According to the 2003 ISI Science Citation Index impact factors (published in 2004), the ECS journals were again the top two in the field. ESL was number one, with an impact factor of 2.742 (up from 2.505), and the *Journal of The Electrochemical Society* (JES) had an impact factor of 2.361 (up from 2.330).

After several years of planning, ECS approved a charter for the new publication, *ECS Transactions* (ECST). *ECS Transactions* will be an online database publication for content presented at ECS meetings and ECS-sponsored meetings. The papers appearing in ECST will be reviewed to ensure that submissions meet generally-accepted scientific standards. The collections of these papers will serve as the proceedings of their respective symposia, and will be available for sale as such, as well as individually.

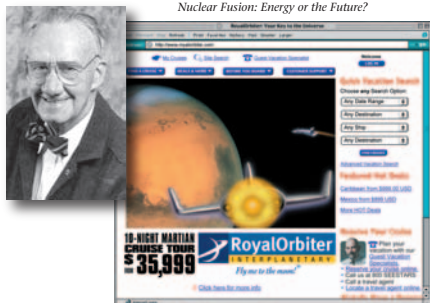
There are many electrochemical and solid-state applications that have become commonplace in many countries; but the pacemaker might well lead the list. *Interface* magazine was fortunate to hear from the inventor of the implantable pacemaker (and an ECS member)—Wilson Greatbatch—in a fascinating *Free Radicals* column entitled, "A Weekend Trip to Mars—Nuclear Fusion: Energy for the Future."

A new title was added to the Society's list of sponsored monographs. This was the long-awaited third edition of *Electrochemical Systems* by John Newman and Karen Thomas-Alyea. The book sold over 900 copies in its first year. Dr. Newman is a former Associate Editor for JES.

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FREE RADICALS A Weekend Trip to Mars

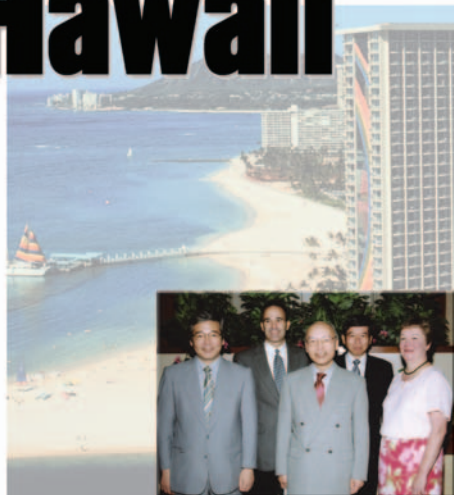
Nuclear Fusion: Energy or the Future?



WILSON GREATBATCH, ECS member and inventor of the implantable pacemaker.

* Relics found in the Middle East suggest that, thousands of years ago, voltaic cells were being used. Electroplating of some sort is known to have existed in those times as well.

Hawaii



A successful joint international meeting in Hawaii brought smiles to organizers and participants alike. Attendees were fortunate to hear a talk by MASUO AIZAWA (3rd from left) on the challenges of bioelectronics. Prof. Aizawa is joined here by (from left to right): TADASHI WATANABE, ECSJ organizing committee chair; ROQUE CALVO, ECS Executive Director; (Aizawa); JUNICHI TANAHASHI, ECSJ President; and ROBIN SUSKO, 2004-2005 ECS President.

San Antonio Texas



RICHARD ALKIRE (left) received the Society's 2004 Vittorio de Nora Award from ECS President (2003-2004) BRUNO SCROSATI at the Society's spring 2004 meeting. Prof. Scrosati was the first Society President from Europe.

International, Inter-Society Cooperation

ECS joined with four other organizations from half-way around the world from us to produce the 2004 Joint International Meeting held in Honolulu, Hawaii in the fall. The 206th Meeting of The Electrochemical Society combined with the fall 2004 meeting of The Electrochemical Society of Japan. This meeting, the fourth in the series, was technically cosponsored by the Korean Electrochemical Society, the Japan Society of Applied Physics, and the Electrochemistry Division of the Royal Australian Chemical Institute. This major international conference included 46 topical symposia consisting of 2,643 technical presentations. Non-U.S. meeting attendees comprised 63% of the total attendance.

The Society's spring and fall 2004 meetings attracted an average of 49% non-U.S. attendance. The spring meeting, held in San Antonio, Texas, included 40 topical symposia consisting of 943 technical presentations and attracted 35% non-U.S. attendance. A new meeting abstract submission program made it easier for authors from all over to submit their abstracts to the ECS meetings.

Of the 14 Society co-sponsored meetings in 2004, nine took place outside of the United States. Shanghai, China was the setting for both the International Workshop on Junction Technology (IWJT 2004) and the International Semiconductor Conference (ISTC 2004). France was also a popular destination, hosting IPS-15 (Fifteenth International Conference on Photochemical Conversion and Storage of Solar Energy), in addition to EURO-CORR 2004 (European Federation of Corrosion EFC). Other Society-sponsored meetings included: the Fourth Kurt Schwabe Corrosion Symposium; Mechanics of Corrosion and Protection in Espoo, Finland; SSPC-12 (Solid State Proton Conductors) in Uppsala, Sweden; Electrochem 2004 in Leicester, England; the International Conference on Electrode Processes in Szczyrk, Poland; and the Twelfth

International Meeting on Lithium Batteries (IMLB 12) held in Nara, Japan.

Providing Services, Gaining Support

The ECS Centennial Campaign continued its push toward the \$1 million dollar mark. Over \$44,000 was raised in 2004, bringing the total amount, since the campaign began in 2002, to almost \$850,000.

The 2004 campaign was highlighted by a record number of donors. Donations to the campaign came from 180 individuals, and of this number, 65 were from outside of the United States. These benefactors helped support such important initiatives as the ECS Digital Library, the ECS Endowment, ECS Summer Fellowships, ECS Student Chapters, and a new Special Membership Fund.

Also in 2004, a special group of friends, family, and colleagues created a committee to begin raising money for the Herbert H. Uhlig Summer Fellowship. The committee, made up of Greta Uhlig, Aziz Asphahani, Ron Latanision, Florian Mansfeld, Winston Revie, and Roque Calvo, met frequently in 2004, and the campaign to raise \$100,000 to endow the new summer fellowship honoring Dr. Uhlig's memory will begin in mid-2005.

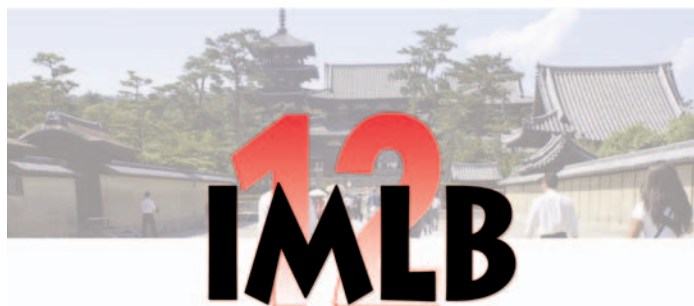
In addition, the ECS Corporate Member and Exhibit programs had a strong year. The ECS Corporate Member program reached a new financial peak with 68 total companies and a total income of over \$100,000. Of those Corporate Members, 25 of them, or 37% were from outside the United States. The ECS Technical Exhibit boasted 59 exhibitors in the last two meetings, and of this number, 19, or 32% were from outside the United States.

As the Society nears the final year of the five-year Centennial Campaign, we can expect to see many new and exciting initiatives.

The Shrinking, Expanding Globe

In 2004, the latest iteration of the Society's Long-Range Planning Committee completed its work. The subcommittee on ECS Sections reported that one of the challenges for the Sections was that ECS was "dramatically international in scope. There are very few societies or associations based in the U.S. that have a larger population of international members as a percentage of their total membership base. ECS has 42% of its members residing outside the United States." As the Society has grown internationally, the Sections that have evolved successfully have incorporated larger geographic areas by becoming Sections that represent an entire coun-

The 12th International Meeting on Lithium Batteries, **IMLB-12**, was held June 27 to July 3, 2004 at the Nara Centennial Hall in Nara, Japan. The conference included an excursion to Horyuji Temple, the world's oldest wooden structure, located south of Nara.



try, or as in the case of Europe, an entire continent. The report went on to recommend that a new model be developed, one that would involve nine "Regions," which would be larger than the current geographic scope of the current Sections. Smaller geographical units might continue to run activities and meetings and would operate as "Sections" within the larger Regions. Clearly the Society's globalization efforts will continue to expand—enabling easy, yet meaningful access to meet the needs of its entire constituent base. ■

Members Affiliated with ECS Sections

(Note: Not all ECS members affiliate with a Section)

Arizona	125
Brazilian.....	32
Canadian	241
Chicago.....	174
Cincinnati	57
Cleveland.....	135
Detroit.....	95
European.....	1,033
Georgia	198
Israel.....	35
Japan	774
Korean.....	197
Metropolitan New York.....	315
National Capital	212
New England	351
Pittsburgh	84
San Francisco.....	419
South Texas.....	198
Twin Cities.....	85

ECS Membership Statistics

(As of October 1, 2004)

ECS Membership by Class

Category	2000	2001	2002	2003	2004	2003/2004 %Change
Active	5523	5525	5297	5411	5405	-0.1
Member Reps	79	79	58	63	66	4.8
Life	57	57	51	52	46	-11.5
Emeritus	240	235	247	246	215	-12.6
Honorary	26	27	26	29	27	-6.9
Subtotal Active in Good Standing	5925	5923	5679	5801	5759	-0.7
Delinquent	710	851	961	797	823	3.3
Total Active on Record	6635	6774	6640	6598	6582	-0.2
Students	960	876	869	882	889	0.8
Delinquent	250	382	315	330	389	17.9
Total Students	1210	1258	1184	1212	1278	5.4
Total Individual Members	7845	8032	7824	7810	7860	0.6

ECS Membership by Section

Section	2000	2001	2002	2003	2004	2003/2004 %Change
Arizona			106	122	125	2.5
Brazilian		47	45	34	32	-5.9
Canadian	250	220	213	223	241	8.1
Chicago	178	161	149	178	174	-2.2
Cincinnati	60	54	52	46	57	23.9
Cleveland	111	107	123	125	135	8.0
Detroit	92	106	94	90	95	5.6
European	1093	1025	1029	1178	1033	-12.3
Georgia	142	163	173	172	198	15.1
Israel	41	42	34	35	35	0.0
Japan	681	692	698	754	774	2.7
Korea	219	235	213	224	197	-12.1
Metropolitan New York	362	388	337	322	315	-2.2
Midland	21	21	21	17		
National Capital	230	253	238	217	212	-2.3
New England	346	344	347	353	351	-0.6
Pacific Northwest	115	117	115	125	121	-3.2
Philadelphia	143	136	138	119		
Pittsburgh	100	101	88	89	84	-5.6
San Francisco			404	379	419	10.6
San Francisco (EST)	157	164				
San Francisco (SS&T)	280	258				
South Texas	177	167	183	172	198	15.1
Southern Wisconsin	52	45				
Twin Cities	106	98	80	77	85	10.4
Non-Section	1929	1800	1668	1632	1767	8.3
SUBTOTAL All classes (current)	6885	6744	6548	6683	6648	-0.5
Delinquents (Active & Student)	960	1288	1276	1127	1212	7.5
TOTAL	7845	8032	7824	7810	7860	0.6

(The 2004 Annual Report continues on the following pages.)

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Peter Fedkiw, *Treasurer*, North Carolina State University

Petr Vanysek, *Secretary*, Northern Illinois University

Roque Calvo, *Executive Director*, The Electrochemical Society

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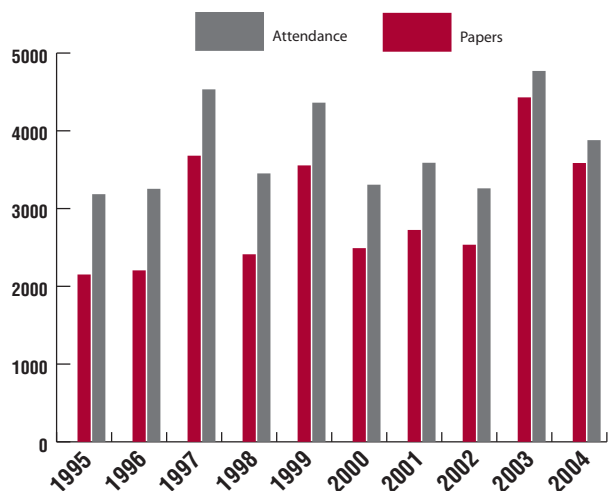
David Shifler, Naval Surface Warfare Center

Karl Spear, Penn State University

John Stickney, University of Georgia

ECS Meetings

Paper submission and attendance.



2004 Headquarters Staff

(As of June 14, 2005)

Roque J. Calvo, Executive Director

Mary E. Yess, Deputy Executive Director

Brian P. Bosak, Director of Information Technology

Karen Chmielewski, Development Coordinator

Anne Clementson, Publications Assistant

Paul Cooper, Journals Systems Manager

Ann F. Goedkoop, Assistant Director of Publications

Erin Goodwin, Assistant Director of Meetings and Exhibits

Andrea L Guenzel, Journals Production Assistant

Susan M. Liggett, Senior Customer Service Representative

Patricia T. Lorynski, Administrative Assistant

Terry McCloughan, Books Program Coordinator

Troy M. Miller, Director of Development

Elisha Nicholson, Publications Production Coordinator

Stephanie Plassa, Director of Meetings and Exhibits

Donna Provost, Customer Service Representative

Ellen M. Tiano, Director of Membership

Carolyn R. Wroblewski, Director of Finance

Valerie Yacko, Administrative Assistant

ECS Consolidated Balance Sheet

(Years Ended December 31, 2004 and 2003)

Assets	2004	2003
Cash	\$139,358	\$122,113
Accounts Receivable	163,816	141,541
Contributions Receivable	20,025	29,200
Inventories	29,727	59,912
Prepaid expenses, deposits, and other assets	112,673	115,670
Investments (note 2):		
Marketable Securities	8,311,472	8,067,348
Real Estate	1,812,920	1,437,733
Land	350,608	350,608
Buildings	226,663	233,329
Total Assets	\$11,167,262	\$10,557,454

Liabilities and Net Assets	2004	2003
Liabilities:		
Accounts Payable and accrued expenses	\$112,380	\$187,173
Deferred Revenue	1,077,207	51,295
Security Deposits	25,525	26,196
Deferred Compensation	40,804	48,206
Total Liabilities	\$1,255,916	\$312,870

Net Assets:		
Unrestricted		
General Operating	\$101,793	\$940,038
Investment in land and buildings	577,271	583,937
Custodial	7,796,972	7,296,237
Designated	480,584	470,712
Designated earnings	125,749	118,857
Sections	123,160	117,150
Total Unrestricted	\$9,205,529	\$9,526,931
Temporarily restricted	335,617	347,453
Permanently restricted	370,200	370,200
Total Net Assets	\$9,911,346	\$10,244,584

Total Liabilities & Net Assets...\$11,167,262 \$10,557,454



Notes to Financial Statements

1—Summary of Significant Accounting Policies

The consolidated financial statements include the accounts of The Electrochemical Society, Inc. and its Divisions, Groups, and Sections, and its wholly owned subsidiaries, ECS Holdings LLC and ECS Fifty-Nine Holding 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, Inc. and subsidiaries (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, 2004:

Money market funds.....	\$576,889
Equity mutual funds.....	3,435,103
Short-term corporate fund.....	198,655
Certificates of deposit	2,564,924
Corporate and US bonds.....	1,505,479
Accrued Interest receivable	30,422
Real Estate (ECS Holdings LLC).....	1,437,733
Real Estate (ECS Fifty-Nine Holding LLC).....	375,187
Total	10,124,392

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 \$397,860 for the year ended December 31, 2004.)

4—Independent Accounting Firm

The Society engaged the services of the independent accounting firm, Noble & Noble LLP, to conduct the 2004 annual audit. In the opinion of Noble & Noble LLP, the Society's financial statements present fairly, in all material respects, the financial position of The Electrochemical Society, Inc. and subsidiaries as of December 31, 2004, and the changes in their net assets and their cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Consolidated Statement of Activities

(Year Ended December 31, 2004)

Revenues	2004
Publications	\$1,970,786
Membership	665,192
Society meetings and activities	1,497,954
Interest and dividend income.....	221,754
Contributions and grants.....	127,562
Rental income.....	397,860
Other revenues	26,815
Net assets released from restrictions for awards.....	(9,175)
Total Revenues	\$4,898,748
Expenses	2004
<i>Program Services:</i>	
Publications	\$2,050,007
Membership	127,423
Society meetings and activities	966,968
Awards, fellowships, and grants.....	282,651
Total Program Services	\$3,427,049
<i>Supporting Services:</i>	
General and administrative.....	\$752,023
Rental Operations.....	314,871
Total Supporting Services.....	\$1,066,894
Total Expenses	\$4,493,943
Increase (decrease) in net assets from operations	404,805
Nonoperating gain (loss):	
Net change in fair value of investments	263,372
Increase (decrease) in net assets	\$668,177
Net assets as of beginning of year	\$9,243,169
Net assets as of end of year.....	\$9,911,346

2004 Corporate Partners

3M Company
Accent Optical Technologies
Ade Phase Shift
Advance Research Chemicals, Inc.
Agilent Laboratories
Alfa Aesar A Johnson Matthey Company
Arbin Instruments
Asylum Research
Atotech USA, Inc.
BAE Systems Applied Technologies Inc.
Ballard Power Systems (Canada)
BaSyTec
Battery Design Company
BCS Fuel Cells, Inc.
Brinkmann Instruments, Inc
Broddarp of Nevada
C. Uyemura & Co., Ltd., Central Research Lab. (Japan)
Central Electrochemical Research Institute (India)
CITIC Guoan Mengguli Power Source Tech (China)
Comsol, Inc
CSIRO Div. of Mineral Prod., Clayton, (Australia)
DAISO Co., Ltd. (Japan)
De Nora Technologie Electrochimiche S.r.l. (Italy)
Degussa AG (Germany)
Dionex Corporation
Dow Chemical Co., Chlor-Alkali Assets Business
Duracell
E.I.DuPont de Nemours, HD Microsystems
ECO Energy Conversion

ElectroChem, Inc.
Electrolytics, Inc
Electrosynthesis Company, Inc.
Elsevier
ELTECH Systems Corporation
Energiizer, Battery Products Division
Entek Membranes
ESA, Inc. (Cypress Systems)
eSpin
E-Tek Division De Nora North America, Inc
Evans Analytical Group
FMC Corporation, Active Oxidants Division
FMC Lithium
Fuel Cell Technologies
GAIA - Akkumulatorenwerke GmbH (Germany)
Gamry Instruments
General Electric Co., Global Research
General Motors Research Laboratories
Giner, Inc., Newton, MA
Hach Company, Radiometer Analytical Division
Ibiden Co, Ltd. (Japan)
IBM Corporation
Integran Technologies Integrated Systems Engineering, Inc.
International Lead Zinc Research Organization, Inc.
Kerr-McGee Chemical, LLC, Electrolytic Division
Kluwer Academic Publishers
KOSLOW Scientific Co.
Lacks Enterprises

Lawrence Berkeley National Lab
Leclanche, S.A. (Switzerland)
Maccor, Inc
Malt Group
Materials Today/Elsevier Ltd
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Max-Planck-Institut fur Festkorperforschung (Germany)
Maxtek, Inc
Medtronic, Inc. Energy and Component Center
Merck KGaA
Mine Safety Appliances Company
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Technic, Inc.
TIMCAL Graphite and Carbon Ltd. (Switzerland)
Toshiba Corp., Research & Development (Japan)
Toyota Central Research & Development Labs, Inc. (Japan)
Tvn Systems, Inc
USC-Viterbi School of Engineering
UTC Fuel Cells
Valence Technology
Varta Automotive GmbH - Advanced Battery Division (Germany)
Veeco Instruments
Vyteris Inc.
Wacker Siltronic AG (Germany)
Wilson Greatbatch, Ltd.
Yeager Center for Electrochemical Sciences at CWRU
Yuasa Corp. (Japan)
ZSW, Center for Solar Energy & Hydrogen Research (Germany)

*Companies listed in bold are new for 2004.

Contributors to the ECS Centennial Campaign

The following individuals made generous gifts to the Centennial Campaign. We thank them for their support of the Society and the contribution to their field.

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Fumio Hine*
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R. E. Visco.....	1961	H. Faulkner.....	1977	H. Gasteiger.....	1993
A. K. Postma.....	1962	D. M. Novak.....	1978	J. Schoer.....	1994
C. C. Liu.....	1963	B. R. Karas.....	1979	S. Morin.....	1995
M. J. Vasile.....	1964	R. M. Cohen.....	1980	N. Madigan.....	1996
M. J. Vasile.....	1965	R. N. Dominey.....	1981	S. Petrovic.....	1997
C. C. Liu.....	1966	R. M. Ianniello.....	1982	J. J. Sumner.....	1998
B. N. Baron.....	1967	D. F. Tessier.....	1983	A. Wijayawardhana.....	1999
L. P. Zajicek, Jr.	1968	N. T. Sleszynski.....	1984	B. Liu.....	2000
K. R. Bullock.....	1969	C. M. Lieber.....	1985	C. Noble.....	2001
S. H. Cadle.....	1970	J. L. Valdes.....	1986	C. B. France.....	2002
J. W. Webb.....	1971	R. Q. Bligh.....	1987	P. Ramadass.....	2003
C. P. Keszthelyi.....	1972	D. W. Conrad.....	1988	J. Carroll.....	2004
M. Shabrang.....	1973	S. A. Schofield.....	1989		
D. H. Karweik.....	1974	J. A. Roberts.....	1990		

F. M. Becket Summer Fellowship

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

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

Energy Research Summer Fellowship

(supported by the U.S. Department of Energy)

M. R. Deakin.....	1985	C. K. Nguyen.....	1990	Y.-E. Sung.....	1995
P. B. Johnson.....	1985	I.-H. Oh.....	1990	J. C. Conboy.....	1995
D. A. La Hurd.....	1985	T. G. Strein.....	1990	L. A. Zook.....	1995
S. E. Morris.....	1985	J. W. Weidner.....	1990	W. R. Everett.....	1995
D. P. Wilkinson.....	1985	S. E. Gilbert.....	1990	H. Zhang.....	1995
D. G. Frank.....	1986	C. S. Johnson.....	1991	S. Grabtchak.....	1996
K.-C. Ho.....	1986	H. Huang.....	1991	J.-B. Green.....	1996
R. G. Kelly.....	1986	D. R. Lawson.....	1991	S. Motupally.....	1996
I.-H. Yeo.....	1986	B. D. Pendley.....	1991	C. Nasr.....	1996
J. Kwak.....	1986	C. C. Streinz.....	1991	S. Nayak.....	1996
L. C. Dash.....	1987	P. A. Connick.....	1992	K. Hu.....	1997
S. A. Naftel.....	1987	A. C. Hillier.....	1992	M. E. Williams.....	1997
T. R. Nolen.....	1987	D. L. Taylor.....	1992	A. Zolfaghari.....	1997
D. Schwartz.....	1987	K. K. Lian.....	1992	C. R. Horne.....	1997
T. H. Wong.....	1987	T. T. Nadasdi.....	1992	G. K. Jennings.....	1997
S. D. Fritts.....	1988	D. G. Jensen.....	1993	M. Zhao.....	1998
D. A. Koos.....	1988	J. C. Bart.....	1993	S. Sriramulu.....	1998
D. A. Hazlebeck.....	1988	G. Seshadri.....	1993	J. Ritchie.....	1998
M. O. Schloh.....	1988	J. A. Poirier.....	1993	M. A. Elhamid.....	1998
S. S. Perine.....	1988	K. W. Vogt.....	1993	S. Zou.....	1998
J. E. Baur.....	1989	Z. Shi.....	1994	K. Cooper.....	2000
C.-P. Chen.....	1989	C.-C. Hsueh.....	1994	K. Grant.....	2000
D. W. Eng.....	1989	V. A. Adamian.....	1994	D. Hansen.....	2000
R. L. McCarley.....	1989	K. M. Maness.....	1994	J. F. Hicks.....	2000
C. J. Murphy.....	1989	K. M. Richard.....	1994	Z. Liu.....	2000

Oronzio de Nora Industrial Electrochemistry Fellowship

N. Mano..... 2004

Norman Hackerman Young Author Award

(formerly the Young Authors Prize 1929-1988)

W. C. Gardiner.....	1929	W. R. Parrish.....	1969	P. N. Bartlett.....	1987
D. K. Alpern.....	1930	A. J. Appleby.....	1970	J. Maier.....	1987
F. L. Jones.....	1931	D. C. Johnson.....	1970	J. A. Bardwell.....	1988
F. W. Godsey, Jr.....	1932	D.-T. Chin.....	1971	C.-J. Han.....	1988
B. L. Bailey.....	1933	M. S. Whittingham.....	1971	A. E. Husser.....	1989
J. R. Heard, Jr.....	1934	M. A. Hopper.....	1972	D. H. Craston.....	1989
U. B. Thomas, Jr.....	1935	F. Kuhn-Kuhnenfeld.....	1972	J. M. Rosamilia.....	1989
W. A. Johnson.....	1936	M. J. Bowden.....	1973	J. H. Comfort.....	1989
R. S. Soanes.....	1937	L. Thompson.....	1973	M. W. Verbrugge.....	1990
N. B. Nichols.....	1938	D. Simonsson.....	1973	C. J. Giunta.....	1990
G. A. Moore.....	1939	S. H. Cadle.....	1974	T. J. Mountziaris.....	1991
J. S. Mackay.....	1940	A. D. Dalvi.....	1974	J. V. Cole.....	1991
E. Adler.....	1941	L. R. Faulkner.....	1975	D. W. Suggs.....	1991
S. Speil.....	1942	S. Solmi.....	1975	B. W. Gregory.....	1991
W. G. Berl.....	1943	P. Negri.....	1975	D. B. Bonham.....	1992
J. P. Coyle.....	1944	B. MacDougall.....	1976	E. S. Aydil.....	1992
A. E. Hardy.....	1945	S. K. Ubhayakar.....	1976	P. P. Apte.....	1993
N. A. Nielsen.....	1946	C. W. Manke.....	1977	A. West.....	1993
H. Leidheiser, Jr.....	1947	W. J. Horkans.....	1977	H. A. Gasteiger.....	1994
M. A. Streicher.....	1948	A. G. Gonzalez.....	1978	F. R. Myers.....	1994
J. C. Griess, Jr.....	1949	C. H. Tsang.....	1978	R. Vidal.....	1995
G. W. Murphy.....	1950	D. A. Antoniadis.....	1978	G. D. Papasouliotis.....	1995
J. T. Byrne.....	1951	D. Y. Wang.....	1979	J. H. Nordlien.....	1996
W. E. Kuhn.....	1952	C. W. Magee.....	1979	J. Lee.....	1996
J. Halpern.....	1953	E. Takayama.....	1980	A. K. Padhi.....	1997
M. J. Pryor.....	1954	H. Reller.....	1980	S. M. Han.....	1997
M. Stern.....	1955	W. J. P. Van Enckevort.....	1981	A. D. Robertson.....	1998
R. S. Cooper.....	1956	M. W. M. Graef.....	1981	Y. Shao-Horn.....	1998
P. Ruetschi.....	1957	C. Y. Chao.....	1981	S. R. Kaluri.....	1998
M. Stern.....	1958	L. F. Lin.....	1981	A. Bautista.....	1999
F. A. Posey.....	1959	D. W. Sittari.....	1982	P. A. O'Neil.....	1999
A. C. Makrides.....	1960	T. P. Chow.....	1982	R. T. Leah.....	2000
J. D. Newson.....	1961	P. G. Pickup.....	1983	J. W. Klaus.....	2000
M. J. Dignam.....	1962	K. F. Jensen.....	1983	J. F. Whitacre.....	2001
J. A. Cunningham.....	1963	D. B. Graves.....	1983	P. Feichtinger.....	2001
R. E. Westerman.....	1964	N. A. Godshall.....	1984	T. J. Pricer.....	2002
R. E. Visco.....	1965	E. K. Broadbent.....	1984	P. S. Lee.....	2002
J. Newman.....	1966	J. C. Farmer.....	1985	K. Jambunathan.....	2003
H. W. Pickering.....	1967	G. S. Oehrlein.....	1985	S. Noda.....	2003
G. G. Charette.....	1968	J. Richer.....	1986	M. Miyamoto.....	2003
G. Dryhurst.....	1969	T. Tanaka.....	1986	R. Akolkar.....	2004
J. Newman.....	1969	C. P. Wilde.....	1987	Y.-K. Hong.....	2004

Turner Book Prize

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

Battery Division Student Research Award

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

Battery Division Research Award

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

Battery Division Technology Award

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

Corrosion Division H. H. Uhlig Award

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

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

Corrosion Division Morris Cohen Graduate Student Award

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

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

Dielectric Science and Technology Division Thomas D. Callinan Award

J. A. Davies.....	1968	B. E. Deal.....	1982	Y.-H. Wong.....	1994
J. P. S. Pringle.....	1968	L. Young	1983	K. L. Mittal	1995
G. M. Sessler.....	1970	A. K. Sinha	1985	W. D. Brown.....	1996
J. E. West	1970	A. C. Adams	1986	J. P. Dismukes.....	1997
C. A. Mead	1971	S. P. Murarka	1987	R. Singh	1998
W. Kern	1972	R. B. Comizzoli.....	1988	A. Rohatgi	1999
J. R. Szedon	1973	E. A. Irene.....	1988	K. Saraswat	2000
C. M. Osburn	1975	R. A. Levy	1989	P. Ho	2001
T. W. Hickmott.....	1976	M. H. Woods	1990	J. Deen.....	2002
J. R. Ligenza.....	1977	V. J. Kapoor	1991	S. K. Banerjee	2003
R. Williams.....	1978	S. I. Raider	1992	A. G. Revesz	2003
R. J. Kriegler	1979	D. W. Hess.....	1993	S. Fonash.....	2004

Electrodeposition Division Research Award

W. Weil.....	1980	J. W. Dini.....	1985	S. Nakahara	1990
Y. Okinaka	1981	H. R. Johnson.....	1985	T. C. Franklin	1991
E. B. Budevski.....	1982	H. Leidheiser	1986	R. E. White	1992
R. C. Alkire.....	1983	J. P. Hoare.....	1987	P. C. Andricacos	1993
L. T. Romankiw.....	1984	H. Y. Cheh.....	1988	M. J. Froment.....	1994
R. J. von Gutfeld	1984	D. S. Lashmore.....	1989		

(continued on next page)

Electrodeposition Division Research Award (continued)

D. Landolt.....	1995	Madhav Datta.....	1998	D. Kolb.....	2002
T. Osaka.....	1996	R. Winand.....	1999	J. Switzer.....	2003
M. Schlesinger.....	1997	H. Honma.....	2000	J. Dukovic.....	2004

Electronics Division Award

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

Energy Technology Division Research Award

M. W. Verbrugge.....	1994	A. W. Czanderna.....	1999	A. Nozik.....	2003
S. Srinivasan.....	1996	R. Selman.....	2001	K. Kinoshita.....	2004
H. R. Kunz.....	1998	I. Uchida.....	2001		

High Temperature Materials Division Outstanding Achievement Award

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

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

S. Mohny.....	1999	S. M. Haile.....	2001	M. Swihart.....	2003
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Industrial Electrolysis and Electrochemical Engineering Division H. H. Dow Memorial Student Achievement Award

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

Industrial Electrolysis and Electrochemical Engineering Division Student Achievement Award

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

Luminescence and Display Materials Division Centennial Award

A. Meijerink.....	2004
A. Srivastava.....	2004

Organic and Biological Electrochemistry Division Manuel Baizer Memorial Award

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

Physical Electrochemistry Division David C. Grahame Award

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

Physical Electrochemistry Division Max Bredig Award in Molten Salt Chemistry

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

Sensor Division Outstanding Achievement Award

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

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