

2003 ECS Annual Report

A Point of Departure



The election of the first ECS president from Europe set the stage for the year 2003 as a year of ECS firsts. Not only are these firsts important achievements, but, in the words of that first European president, Bruno Scrosati, they also represent a "point of departure." (See *Interface*, summer 2003, p. 7.)

Our other firsts have occurred in our essential program areas. These firsts validate the long-term strategic planning and actions of the ECS leadership, and indicate that we are effectively serving the community of scientists and engineers engaged in solid-state and electrochemical science and technology. These firsts have become our new benchmarks and allow ECS to jump into the future from a higher launching point than ever before.

A Wealth of Technical Content

The Society's journals have seen a marked increase in activity, setting records for both the *Journal of The Electrochemical Society* (JES) and *Electrochemical and Solid-State Letters* (ESL): JES published 822 papers and 5,389 pages, and ESL published 222 papers and 770 pages. While both journals published more in terms of sheer quantity, the quality remained just as high. The ISI *Science Citation Index* impact factors were also the highest ever, with JES at 2.361 and ESL at 2.742.

The "all-electronic" workflow for ECS journals took another step, taking advantage of all the speed and efficiency of the Internet. In July, the Society launched Peer X-Press (PXP) at esl.peerx-press.org for online submissions to *Electrochemical and Solid-State Letters*. PXP is a tightly-integrated Web-based system provided by the American Institute of Physics (AIP). It enables online manuscript submissions, editorial process tracking, and peer-review workflow management. The PXP system provides for fast peer-review and acceptance decisions for authors anywhere in the world. By September 2003, JES also began using the system (jes.peerx-press.org).

Electrochemical and Solid-State Letters, which began publication in July 1998, reached a major milestone in 2003. From its beginning, the editor and editorial board of JES also served the same functions for ESL. In 2003, ESL had grown to the point that it required a separate editorial structure, and the Society was pleased to announce the appointment of Dennis W. Hess as the new editor of this rapid-publication journal. Dr. Hess is the William W. La Roche, Jr. Professor of Chemical Engineering at the Georgia Institute of Technology and a past president of ECS. Paul Kohl, who served as editor for both journals, and who was responsible for the creation of the *Letters* journal in 1998, continues on as Editor of the *Journal of The Electrochemical Society*.

Meetings Reflect the International Tone

With 4,430 presentations, the Society's two meetings in 2003 combined drew the largest number of papers ever scheduled. The two meetings also drew the largest number of attendees ever: 4,618. At 2,936, the spring 2003 meeting in Paris alone drew the single largest number of attendees for a single, non-jointly sponsored ECS meeting.

The spring meeting in Paris, France marked the second time that the Society met on European soil. The meeting was a huge success, despite the challenges associated with SARS, the war in Iraq, and restrictions on travel. Attendees had an abundance of technical content from which to choose: 2,939 papers in 57 symposia. The ple-



This past July, the Society launched Peer X-Press (PXP) for online submissions to the ECS journals.



*Dennis W. Hess was named the new editor of *Electrochemical and Solid-State Letters*.*



Nobel Laureate Gerd Binnig (left) delivered the Paris Plenary Lecture, entitled "Nanotechnology: The Path to Handling Complexity?" Dr. Binnig is shown here receiving a certificate of appreciation from 2002-2003 ECS president Karl Spear.

nary lecture was delivered by Gerd Binnig of IBM Zurich and was entitled, "Nanotechnology: The Path to Handling Complexity?" Binnig was the latest Nobel Laureate to address an ECS meeting.

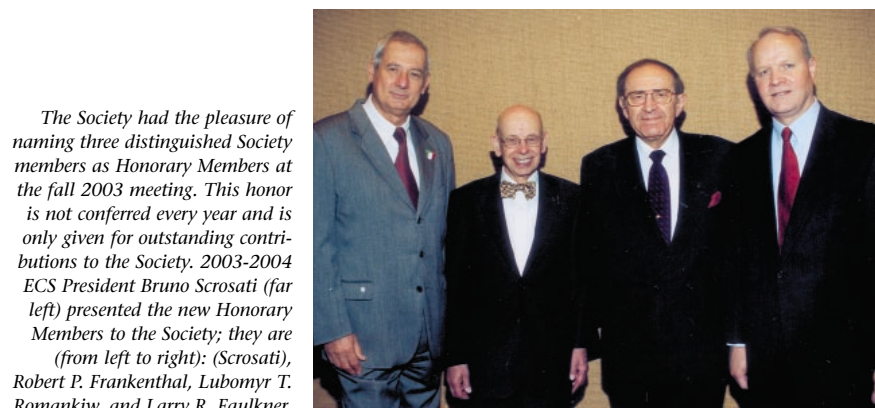
The fall 2003 meeting was held in Orlando, Florida, a new meeting destination for ECS. Many attendees brought their families to enjoy Disney World and the other Orlando attractions during the meeting week. The meeting was host to over 1,800 attendees choosing from 1,491 papers in 41 symposia. Bernard Tribollet of CNRS France presented the Sunday evening "XYZ Talk," entitled "The Hidden Treasures of Impedance Spectroscopy." Fritz Kalhammer, an independent consultant, presented the plenary lecture entitled, "When Will We Be Able to Buy and Drive Fuel Cell Electric Vehicles?" At the meeting, the Society had the pleasure of naming three distinguished ECS members as Honorary Members: Robert P. Frankenthal, Larry R. Faulkner, and Lubomyr T. Romankiw. This honor is not conferred every year and is only given for outstanding contributions to the Society.

Topical ("satellite") meetings sponsored and managed by ECS continue to have increased interest from our scientific community. In June 2003, the Solid State Ionics meeting (SSI-14) was held in Monterey, California at the Asilomar Conference Center. Approximately 344 participants from most of the key academic and industrial laboratories attended and contributed to the conference scientific program. The SSI conference series, held every two years and rotating among three continents, provides an international forum for scientists, engineers, and technologists to further their understanding of ionic transport in condensed phases that underpins the development of efficient and environmentally sustainable advanced technologies for energy conversion and storage. The next Solid State Ionics meeting (SSI-15) is scheduled for Baden-Baden, Germany, in 2005.

Development

The ECS Centennial Campaign was another Society program setting some new standards. Over \$200,000 was raised in 2003 bringing the overall total for the campaign to over \$800,000. The overall goal, based on the member-developed ECS Case for Support, is \$6.5 million.

The 2003 appeal was highlighted by a 1,000,000 Yen gift from Yukiko



The Society had the pleasure of naming three distinguished Society members as Honorary Members at the fall 2003 meeting. This honor is not conferred every year and is only given for outstanding contributions to the Society. 2003-2004 ECS President Bruno Scrosati (far left) presented the new Honorary Members to the Society; they are (from left to right): (Scrosati), Robert P. Frankenthal, Lubomyr T. Romankiw, and Larry R. Faulkner.



Participants at the SSI-14 Conference were treated to a beach barbecue on the Asilomar grounds. Seated at the front table are, moving counter-clockwise from the front: Joop Schoonman, ISSI President and conference co-chair; Marina van Geenhuizen; Johanna Boukamp; Turgut M. Gür, ISSI Treasurer and conference co-chair; Boryann Liaw; Werner Sitte; and Bernard Boukamp.



The first Heinz Gerischer Award of the ECS European Section honored Akira Fujishima at a special reception. Joining Dr. Fujishima (second from right) were (left to right) Mrs. Ulrich Gerischer, Reshef Tenne, Claude Lévy-Clement, (Fujishima), and 2002-2003 ECS president Karl Spear.

Dokiya and family, in memory of Masayuki Dokiya, for attendees to travel to the ECS international meetings. In total, 117 donors from seven different countries contributed an average gift of \$1,986. The Electrochemical Society sincerely thanks these individuals who have the satisfaction of knowing they helped not only their Society, but also their colleagues.

Recognition of ECS members and others involved in the Society's areas of technical activity has always been an important component of what ECS does. In 2003, another prize was added to the already-impressive list of awards. The first Heinz Gerischer Award of the European Section was presented in 2003, in Paris, to Akira Fujishima. The first award presentation was accompanied by a symposium in honor of Prof. Gerischer on the subject of nanostructured semiconductor materials and interfaces; and the reception marking the symposium and award was an important occasion attended by the Gerischer family and leaders in the field.

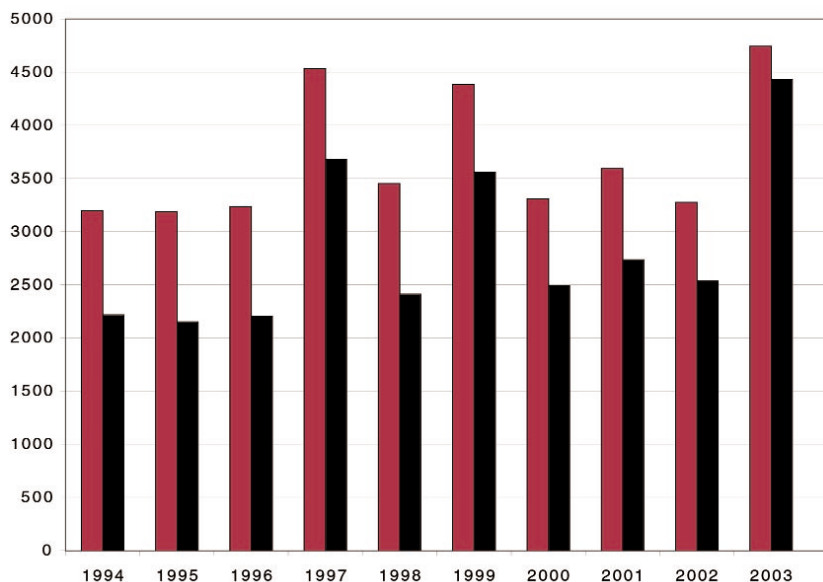
Two other awards were created in 2003: the Oronzio de Nora Industrial Electrochemistry Fellowship of The Electrochemical Society, and the Charles W. Tobias Young Investigator Award of The Electrochemical Society. Both prestigious awards are geared toward improving opportunities for young scientists and engineers, and have been funded through the efforts of the ECS Centennial Campaign.

The Benchmarks Are Set

This record-setting year has by no means been taken as a signal that our work is done. Maintaining quality, improving functionality, and increasing the speed and distribution of all our content remains a constant goal. Whether that content is delivered in a publication, at a meeting, or through interactive, Web-based media, we will continue to enable our members to keep moving forward and set their own new benchmarks as well. ■



the society for solid-state
and electrochemical science
and technology



ECS Meetings—Paper submission and attendance. (■ Attendance and ■ Papers)

Table I. ECS Membership Statistics

(As of October 1, 2003)

ECS Membership by Class

Category	1999	2000	2001	2002	2003	2003/2002 %Change
Active	5183	5523	5525	5297	5411	2.2
Member Reps	75	79	79	58	63	8.6
Life	56	57	57	51	52	2.0
Emeritus	233	240	235	247	246	-0.4
Honorary	27	26	27	26	29	11.5
Subtotal Active in Good Standing	5574	5925	5923	5679	5801	2.1
Delinquent	874	710	851	961	797	-17.1
Total Active on Record	6448	6635	6774	6640	6598	-0.6
Students	838	960	876	869	882	1.5
Delinquent	265	250	382	315	330	4.8
Total Students	1103	1210	1258	1184	1212	2.4
Total Individual Members	7551	7845	8032	7824	7810	-0.2

ECS Membership by Sections

Section	1999	2000	2001	2002	2003	2003/2002 %Change
Arizona				106	122	15.1
Brazilian			47	45	34	-24.4
Canadian	212	250	220	213	223	4.7
Chicago	183	178	161	149	178	19.5
Cincinnati	59	60	54	52	46	-11.5
Cleveland	105	111	107	123	125	1.6
Detroit	98	92	106	94	90	-4.3
European	985	1093	1072	1029	1178	14.5
Georgia	147	142	163	173	172	-0.6
Israel	37	41	42	34	35	2.9
Japan	597	681	692	698	754	8.0
Korea	167	219	235	213	224	5.2
Metropolitan New York	340	362	388	337	322	-4.5
Midland	21	21	21	21	17	-19.0
National Capital	218	230	253	238	217	-8.8
New England	356	346	344	347	353	1.7
Pacific Northwest	125	115	117	115	125	8.7
Philadelphia	140	143	136	138	119	-13.8
Pittsburgh	87	100	101	88	89	1.1
San Francisco				404	379	-6.2
San Francisco (ES&T)	156	157	164	0.0	0.0	0.0
San Francisco (SS&T)	286	280	258	0.0	0.0	0.0
South Texas	173	177	167	183	172	-6.0
Southern Wisconsin	51	52	45	0.0	0.0	0.0
Twin Cities	105	106	98	80	77	-3.8
Non-Section	1764	1929	1800	1668	1632	-2.2
Subtotal All Classes (current)	6412	6885	6744	6548	6683	2.1
Delinquents (Active and Student)	1,139	960	1288	1276	1127	-11.7
Total	7551	7845	8032	7824	7810	-0.2

(Years Ended December 31, 2003 and 2002)

Total Assets\$10,557,454\$9,401,553

1—Summary of Significant Accounting Policies

These consolidated financial statements, which are presented on the accrual basis of accounting, have been prepared to focus on The Electrochemical Society, Inc. 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.

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

- 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.

Money market funds	997,437
Equity Mutual Funds	3,020,488
Short-term corporate fund	150,843
Certificates of deposits	2,257,062
Corporate bonds	1,608,450
Accrued interest receivable	33,068
Real Estate (ECS Holdings LLC)	1,437,733

Total.....\$9,505,081

ECS Holdings LLC leases office space to various tenants under operating lease arrangements expiring through 2019. (Rental Income under the aforementioned leases totaled \$362,081 for the year ended December 31, 2003.)

The Society engaged the services of the independent accounting firm, KPMG LLP, to conduct the 2003 annual audit. In the opinion of KPMG LLP, the Society's financial statements present fairly, in all material respects, the financial position of The Electrochemical Society, Inc. and subsidiary as of December 31, 2003 and 2002, 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.

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Paul Cooper	Journals Systems Manager
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Erin Goodwin	Assistant Director of Meetings and Exhibits

Donna ProvostCustomer Service Representative
Ellen M. TianoDirector of Membership
Carolyn R. WroblewskiDirector of Finance
Carolyn L. ZannoniAdministrative Assistant

TABLE III. Consolidated Statement of Activities

(Years ended December 31, 2003 and 2002)

	2003	2002
Revenues:		
Publications	\$2,124,143	\$2,395,057
Membership	694,483	854,927
Society meetings and activities	1,696,454	1,377,631
Interest and dividend income	258,826	283,349
Contributions and grants	258,378	185,599
Rental income	362,081	350,047
Other revenues.....	20,803	22,296
Total Revenues and Other Support	\$5,415,168	\$5,468,906
Expenses:		
Program Services:		
Publications	2,031,005	2,011,454
Membership	123,793	107,400
Society meetings and activities	1,391,359	1,099,231
Awards, fellowships, and grants	261,528	278,984
Total Program Services.....	3,807,685	3,497,069
Supporting Services:		
General and Administrative:.....	763,319	780,883
Rental Operations:	292,847	263,526
Total Supporting Services	1,056,166	1,044,409
Total Expenses	\$4,863,851	\$4,541,478
Increase (decrease) in net assets from operations.....	551,317	927,428
Nonoperating gain (loss):		
Net change in fair value of investments	625,324	(493,158)
Increase (decrease) in net assets	1,176,641	434,270
Net assets as of beginning of year	9,067,943	8,633,673
Net assets as of end of year	10,244,584	\$9,067,943



FUTURE TECHNICAL MEETINGS

October 3-8, 2004
Honolulu, HI

May 15-20, 2005
Quebec City, Canada

October 16-21, 2005
Los Angeles, CA

May 7-12, 2006
Denver, CO

October 27 - November 4, 2006
Cancun, MX

For information on these future meetings,
contact the Society Headquarters office.
Tel: 609.737.1902 • Fax: 609.737.2743
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Advanced Measurement	EV Group	Maxtek, Inc.	Rayovac Corp.
Advance Research Chemicals, Inc.	Evans Analytical Group	MATS UK	Sachem, Inc.
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CFDRC	H C Starck	Nature Publishing Group	Technic, Inc.
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Elchema	Kluwer Academic Publishers	Group Technical Center	Valence Technology
Electrochem	Koslow Scientific	Praxair Electronics	Veeco Instruments
Electrolytica, Inc.	Leclanche S. A.	Precious Plate Inc.	Wacker Siltronic AG
Electrosynthesis Co., Inc.	Lynntech, Inc.	Princeton Applied Research	Wilson Greatbatch Ltd.
Elsevier	Maccor, Inc.	Qualiflow	Yeager Center for Electrochemical
Eltech Systems Corp.	Marketch	Quallion, LLC	Sciences at CWRU
Energizer	Materials Today	Radiometer Analytical /	Yusua Corp.
		A Hach Brand Co.	

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.

Planned Givers

These individuals have made a significant investment in the future of The Electrochemical Society and the science it advances. Their generosity will have an impact on ECS in perpetuity!

Robert P. Frankenthal
Carl Hering
W. Jean Horkans
Keith E. Johnson
Mary M. Loonam
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Centennial Club

These individuals have given a \$5,000 gift, or more, to the campaign.

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These individuals have given a \$1,000 gift, or more, to the campaign.

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C. G. Fink	1917-1918	E. M. Baker	1942-1943	H. C. Gatos	1967-1968	W. L. Worrell	1992-1993
F. J. Tone	1918-1919	R. M. Burns	1943-1944	I. E. Campbell	1968-1969	R. P. Frankenthal	1993-1994
W. D. Bancroft	1919-1920	S. D. Kirkpatrick	1944-1945	N. C. Cahoon	1969-1970	J. A. Amick	1994-1995
W. S. Landis	1920-1921	W. R. Veazey	1945-1946	C. W. Tobias	1970-1971	K. R. Bullock	1995-1996
A. Smith	1921-1922	W. C. Moore	1946-1947	C. V. King	1971-1972	D. W. Hess	1996-1997
C. G. Schluederberg	1922-1923	G. W. Heise	1947-1948	T. D. McKinley	1972-1973	B. Miller	1997-1998
A. T. Hinckley	1923-1924	J. A. Lee	1948-1949	N. B. Hannay	1973-1974	G. M. Blom	1998-1999
H. C. Parmelee	1924-1925	A. L. Ferguson	1949-1950	D. A. Vermilyea	1974-1975	D. E. Hall	1999-2000
F. M. Becket	1925-1926	C. L. Faust	1950-1951	T. R. Beck	1975-1976	C. M. Osburn	2000-2001
W. Blum	1926-1927	R. M. Hunter	1951-1952	M. J. Pryor	1976-1977	J. Talbot	2001-2002
S. C. Lind	1927-1928	J. C. Warner	1952-1953	D. N. Bennion	1977-1978	K. Spear	2002-2003

Past Secretaries of the Society

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

Past Treasurers of the Society

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



Edward Goodrich Acheson Award

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



Olin Palladium Medal Award

(formerly the Palladium Medal Award, 1951-1977)

C. W. Wagner1951	P. Delahay1967	I. M. Kolthoff1981	J. Kruger1995
N. H. Furman1953	T. P. Hoar1969	M. Cohen1983	R. W. Murray1997
U. R. Evans1955	L. Brewer1971	M. Fleischmann1985	J. B. Goodenough1999
K. F. Bonhoeffer1957	V. G. Levich1973	A. J. Bard1987	N. Sato2001
A. N. Frumkin1959	M. J. N. Pourbaix1975	B. E. Conway1989	E. Gileadi2003
H. H. Uhlig1961	H. Gerischer1977	J. Newman1991	
N. Hackerman1965	R. Parsons1979	J.-M. Savéant1993	



Solid State Science and Technology Award

W. G. Pfann1973	G. L. Pearson1981	J. F. Gibbons1989	K. E. Spear1997
H. C. Gatos1975	N. Holonyak, Jr.1983	J. D. Plummer1991	I. Akasaki1999
R. N. Hall1977	J. M. Woodall1985	B. E. Deal1993	A. Reisman2001
M. B. Panish1979	A. Y. Cho1987	W. L. Worrell1995	R. B. Fair2003



Vittorio de Nora Award

(formerly the Electrochemical Science and Technology Award)

A. Brenner1974	J. C. Schumacher1982	C. W. Tobias1990	R. Baboian1996
R. B. MacMullin1976	D. E. Danly1984	E. B. Yeager1992	W. G. Grot1998
F. T. Bacon1978	K. Kordesch1986	L. T. Romankiw1994	D. R. Turner2000
H. B. Beer1980	A. Heller1988		



Henry B. Linford Award for Distinguished Teaching

C. W. Tobias1982	L. Brewer1988	J. O'M. Bockris1994	G. Stoner2000
B. E. Conway1984	J. Newman1990	T. C. Franklin1996	D. Peters2002
A. J. Bard1986	K. Nobe1992	R. A. Rapp1998	



Carl Wagner Memorial Award

A. J. Bard1981	R. W. Murray.....1987	J. Jorné1993	C. R. Martin1999
G. C. Wood.....1983	W. L. Worrell.....1989	B. R. MacDougall1995	P. A. Kohl2001
R. C. Alkire1985	D. D. Macdonald1991	M. J. Weaver1997	R. M. Crooks2003

Edward Weston Fellowship

E. B. Sanigar1930	P. A. Jacquet1934	V. de Nora1938	R. D. Misch1947
K. Solliner1931	M. A. Coler1935	W. P. Ruemmier1940	M. T. Simnad.....1948
M. E. Fogle1932	H. B. Linford1936	R. E. Black1941	
R. D. Blue1933	G. L. Putnam.....1937	W. E. Roake1942	

Edward G. Weston Summer Fellowship

R. L. Brubaker1961	W. J. Bover1972	R. G. Tompson1983	B. Idriss1994
D. Yohe1962	B. J. Alexander1973	P. M. Kovach1984	D. Bizzotto1995
H. O. Daley, Jr.1963	S. S. Fratoni, Jr.1974	J. N. Harb1985	L. A. Lyon1996
M. D. Hawley1964	M. Suchanski.....1975	S. E. Creager1986	C. Claypool.....1997
T. G. McCord1965	R. J. Nowak1976	X. Zhang1987	B. Bath.....1998
J. D. McLean1966	P. A. Kohl1977	C. Amass1988	A. C. Templeton1999
K. B. Prater1967	C. D. Jaeger1978	R. J. Phillips.....1989	P. W. Wuelfing2000
K. Doblhofer1968	L. Bottomley1979	J. E. Franke1990	K. Balss2001
L. R. Faulkner1969	G. L. McIntire1980	S. R. Snyder1991	T. Hu2002
W. J. Horkans1970	J. Pemberton1981	P. Pantano1992	J. Mauzeroll.....2003
W. J. Horkans1971	M. E. Kordesch1982	G. J. Edens.....1993	

Colin Garfield Fink Summer Fellowship

P. Brown1962	R. R. Chance1973	E. T. T. Jones1984	J. M. Lauerhaus1994
W. G. Lemmermann1963	P. I. Lee1974	D. A. Van Galen1985	S. M. Hendrickson1995
W. G. Stevens1964	J. B. Flanagan1975	J. S. Hanson.....1986	J. C. Hutchinson1996
J. P. Carney1965	J. S. Hammond1976	P. Gao1987	P. V. A. Pamidi.....1997
S. Piekarski1966	P. D. Tyma1977	D. T. Schwartz1988	G. S. Hwang1998
B. S. Pons.....1967	S. M. Wilhelm1978	A. E. Russell.....1989	W. Baker1999
R. E. Bonewitz1968	J. D. Porter1979	J. Xue.....1990	A. Crown2000
L. Papouchado1969	R. S. Glass1980	C. K. Rhee1991	R. Maus2001
R. G. Reed1970	E. E. Bancroft1981	M. J. Shane1992	S. Peper2002
R. Fike1971	T. D. Cabeika.....1982	C. M. Pharr1993	M. Alpuche-Aviles.....2003
D. L. McAllister1972	B. L. Wheeler1983		

Joseph W. Richards Summer Fellowship

V. E. Hauser, Jr.1960	J. W. Webb.....1971	D. F. Tessier1983	J. Schoer1994
M. J. Schaer1961	C. P. Keszthelyi1972	N. T. Sleszynski1984	S. Morin.....1995
R. E. Visco1961	M. Shabrang1973	C. M. Lieber.....1985	N. Madigan1996
A. K. Postma1962	D. H. Karweik1974	J. L. Valdes.....1986	S. Petrovic1997
C. C. Liu1963	T. P. DeAngelis.....1975	R. Q. Bligh1987	J. J. Sumner1998
M. J. Vasile1964	D. L. Feke1976	D. W. Conrad1988	A. Wijayawardhana.....1999
M. J. Vasile1965	H. Faulkner1977	S. A. Schofield1989	B. Liu2000
C. C. Liu1966	D. M. Novak1978	J. A. Roberts.....1990	C. Noble2001
B. N. Baron1967	B. R. Karas1979	M. S. Freund1991	C. B. France.....2002
L. P. Zajicek, Jr.1968	R. M. Cohen1980	L. Gao1992	P. Ramadass2003
K. R. Bullock1969	R. N. Dominey1981	H. Gasteiger.....1993	
S. H. Cadle.....1970	R. M. Ianniello1982		

F. M. Becket Summer Fellowship

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

R. B. Johnson1962	N. A. Godshall.....1975	M. Rosenbluth.....1987	K. S. Weil.....1997
J. K. Johnstone1964	J. D. Hodge1977	J. D. Cotton.....1989	G. S. Hwang1999
K. Lehman.....1966	W. Cheng1979	J. Philliber1991	J. Parrish2001
H. K. Bowen1967	P. Davies1981	P. Agarwal1993	S. Wasileski2002
T. E. Parker1971	P. A. Barron1983	H. C. Slade.....1995	E. Clark2003
G. M. Crosbie1973	G. J. Miller.....1985		

Energy Research Summer Fellowship

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

M. R. Deakin1985	S. S. Perine1988	K. K. Lian1992	S. Motupally1996
P. B. Johnson.....1985	J. E. Baur1989	T. T. Nadasdi1992	C. Nasr1996
D. A. La Hurd1985	C.-P. Chen1989	D. G. Jensen1993	S. Nayak1996
S. E. Morris1985	D. W. Eng1989	J. C. Bart1993	K. Hu.....1997
D. P. Wilkinson1985	R. L. McCarley1989	G. Seshadri1993	M. E. Williams1997
D. G. Frank1986	C. J. Murphy1989	J. A. Poirier1993	A. Zolfaghari1997
K.-C. Ho1986	C. K. Nguyen1990	K. W. Vogt.....1993	C. R. Horne1997
R. G. Kelly1986	I.-H. Oh.....1990	Z. Shi1994	G. K. Jennings.....1997
I.-H. Yeo1986	T. G. Strein1990	C.-C. Hsueh.....1994	M. Zhao.....1998
J. Kwak1986	J. W. Weidner1990	V. A. Adamian.....1994	S. Sriramulu.....1998
L. C. Dash1987	S. E. Gilbert1990	K. M. Maness1994	J. Ritchie1998
S. A. Naftel1987	C. S. Johnson1991	K. M. Richard1994	M. A. Elhamid.....1998
T. R. Nolen1987	H. Huang.....1991	Y.-E. Sung1995	S. Zou1998
D. Schwartz.....1987	D. R. Lawson.....1991	J. C. Conboy1995	K. Cooper2000
T. H. Wong1987	B. D. Pendley1991	L. A. Zook1995	K. Grant2000
S. D. Fritts1988	C. C. Streinz1991	W. R. Everett1995	D. Hansen2000
D. A. Koos1988	P. A. Connick1992	H. Zhang1995	J. F. Hicks.....2000
D. A. Hazlebeck.....1988	A. C. Hillier.....1992	S. Grabtchak1996	Z. Liu.....2000
M. O. Schloh.....1988	D. L. Taylor1992	J.-B. Green.....1996	

Norman Hackerman Young Authors Award

(formerly the Young Authors Prize 1929-1988)

W. C. Gardiner.....1929	A. C. Makrides1960	C. H. Tsang.....1978	C. J. Giunta1990
D. K. Alpern1930	J. D. Newson1961	D. A. Antoniadis1978	T. J. Mountziaris.....1991
F. L. Jones1931	M. J. Dignam1962	D. Y. Wang1979	J. V. Cole.....1991
F. W. Godsey, Jr.1932	J. A. Cunningham1963	C. W. Magee.....1979	D. W. Suggs1991
B. L. Bailey1933	R. E. Westerman.....1964	E. Takayama1980	B. W. Gregory.....1991
J. R. Heard, Jr.....1934	R. E. Visco1965	H. Reller1980	D. B. Bonham.....1992
U. B. Thomas, Jr.1935	J. Newman1966	W. J. P. Van Enkevort1981	E. S. Aydil1992
W. A. Johnson1936	H. W. Pickering1967	M. W. M. Graef1981	P. P. Apte.....1993
R. S. Soanes1937	G. G. Charette1968	C. Y. Chao1981	A. West1993
N. B. Nichols1938	G. Dryhurst1969	L. F. Lin.....1981	H. A. Gasteiger1994
G. A. Moore1939	J. Newman.....1969	D. W. Sittari1982	F. R. Myers1994
J. S. Mackay1940	W. R. Parrish.....1969	T. P. Chow1982	R. Vidal1995
E. Adler.....1941	A. J. Appleby1970	P. G. Pickup1983	G. D. Papasouliotis.....1995
S. Speil1942	D. C. Johnson1970	K. F. Jensen1983	J. H. Nordlien1996
W. G. Berl.....1943	D.-T. Chin1971	D. B. Graves1983	J. Lee.....1996
J. P. Coyle.....1944	M. S. Whittingham1971	N. A. Godshall1984	A. K. Padhi1997
A. E. Hardy1945	M. A. Hopper1972	E. K. Broadbent1984	S. M. Han1997
N. A. Nielsen1946	F. Kuhn-Kuhnenfeld.....1972	J. C. Farmer1985	A. D. Robertson1998
H. Leidheiser, Jr.....1947	M. J. Bowden1973	G. S. Oehrlein1985	Y. Shao-Horn1998
M. A. Streicher1948	L. Thompson1973	J. Richer1986	S. R. Kaluri1998
J. C. Griess, Jr.1949	D. Simonsson1973	T. Tanaka1986	A. Bautista1999
G. W. Murphy1950	S. H. Cadle1974	C. P. Wilde1987	P. A. O'Neil1999
J. T. Byrne.....1951	A. D. Dalvi1974	P. N. Bartlett.....1987	R. T. Leah2000
W. E. Kuhn.....1952	L. R. Faulkner1975	J. Maier1987	J. W. Klaus2000
J. Halpern.....1953	S. Solmi1975	J. A. Bardwell1988	J. F. Whitacre2001
M. J. Pryor1954	P. Negrini1975	C.-J. Han.....1988	P. Feichtinger2001
M. Stern1955	B. MacDougall1976	A. E. Husser1989	T. J. Pricer2002
R. S. Cooper1956	S. K. Ubhayakar1976	D. H. Craston1989	P. S. Lee.....2002
P. Ruetschi1957	C. W. Manke1977	J. M. Rosamilia.....1989	K. Jambunathan2003
M. Stern1958	W. J. Horkans1977	J. H. Comfort1989	S. Noda2003
E. A. Posey1959	A. G. Gonzalez1978	M. W. Verbrugge1990	M. Miyamoto2003

Turner Book Prize

S. Speil.....1942	P. Delahay1950	A. C. Makrides1957	M. Weinstein1963
W. G. Berl1943	K. H. Stern.....1951	J. P. Pemsler.....1958	R. W. Bartlett.....1964
J. P. Coyle1944	C. C. Templeton1951	R. G. Carlson.....1959	E. M. Hofer1965
J. T. Waber.....1945	P. T. Gilbert1952	R. E. Meyer1960	C. S. Tedmon, Jr.1966
B. Cartwright1946	R. B. Holden1953	P. C. Milner1960	F. P. Kober1967
A. E. Hardy1947	D. A. Vermilyea.....1954	H. Freitag1961	J. M. Hale1968
M. A. Streicher1948	J. G. Jewell1955	P. J. Boddy.....1962	
R. E. Hoeckelman1949	J. H. Westbrook.....1956	E. J. Cairns1963	



Battery Division Student Research Award

J. R. Waggoner.....1980	J. Weidner1989	S. Motupally1995	V. Srinivasan2000
K. E. Yee.....1980	M. G. Lee.....1990	J. Xu1996	M. Zhao.....2001
W. A. van Schalkwijk1981	E. J. Podlaha1991	Y. Shao-Horn1997	V. Subramaniam2001
C. Y. Mak.....1986	G. E. Gray1992	I. Courtney1998	L. Fransson2002
T. I. Evans1987	D. Qu.....1993	G.E. Rousse1999	K.-W. Park2003
C. C. Streinz1988	P. De Vidts1994		

Battery Division Research Award

J. J. Lander1958	S. M. Caulder1972	J. L. Devitt.....1986	E. Peled1993
D. M. Smyth1959	J. McBreen.....1974	D. H. McClelland1986	K. M. Abraham1995
T. P. Dirkse1962	T. Katan.....1976	J. P. Gabano.....1987	J. Dahn1996
F. G. Will1964	S. Szpak1976	M. Armand1988	B. Scrosati1997
J. Burbank1966	A. Heller1978	J. Jorne1989	C. Delmas1999
C. P. Wales1966	K. R. Bullock1980	A. N. Dey1990	J. B. Bates2000
D. Tuomi.....1968	R. A. Huggins1982	R. E. White1991	S. Wittingham.....2002
Y. Okinaka.....1970	D. Pavlov.....1984	D. N. Bennion.....1992	K. Kinoshita2003
A. C. Simon1972	G. H. J. Broers1985		

Battery Division Technology Award

Y. Nishi1994	J.-M. Tarascon1997	H. Y. Cheh.....2000	M. Winter2002
K. Ozawa1994	G. E. Blomgren1998	B. B. Owens.....2001	J. Yamaki2003
E. S. Takeuchi1995	A. Yoshino.....1999	D. Wilkinson.....2002	M. Yoshio2003
S. Gilman1996			



Corrosion Division H. H. Uhlig Award

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

M. Cohen1973	T. R. Beck.....1981	R. P. Frankenthal.....1989	M. J. Graham1997
D. A. Vermilyea.....1975	N. Sato.....1983	H. Leidheiser1991	K. Hashimoto1999
J. Kruger1977	P. Kofstad.....1985	H. Isaacs1993	F. Mansfeld2002
M. J. Pryor.....1979	H. W. Pickering1987	W. H. Smyrl.....1995	C. Leygraf2003

Corrosion Division Morris Cohen Graduate Student Award

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

S. D. Scarberry1986	R. G. Buchheit1993	D. G. Kolman1997	S. F. Nitodas2001
C. C. Streinz1987	J.-F. Yan1994	C. S. Brossia1998	K. Cooper2002
R. Bianco.....1988	B. V. Cockeram1995	M. Verhoff1999	T. Ramgopal2003
M. A. Harper.....1992	I. Odnevall1996	S. Yu2000	



Dielectric Science and Technology Division Thomas D. Callinan Award

J. A. Davies1968	J. R. Ligenza1977	E. A. Irene1988	J. P. Dismukes1997
J. P. S. Pringle1968	R. Williams1978	R. A. Levy1989	R. Singh1998
G. M. Sessler1970	R. J. Kriegler1979	M. H. Woods1990	A. Rohatgi1999
J. E. West1970	B. E. Deal1982	V. J. Kapoor1991	K. Saraswat2000
C. A. Mead1971	L. Young1983	S. I. Raider1992	P. Ho2001
W. Kern1972	A. K. Sinha1985	D. W. Hess1993	J. Deen2002
J. R. Szedon1973	A. C. Adams1986	Y.-H. Wong1994	S. K. Banerjee2003
C. M. Osburn1975	S. P. Murarka1987	K. L. Mittal1995	A. G. Revesz2003
T. W. Hickmott1976	R. B. Comizzoli1988	W. D. Brown1996	



Electrodeposition Division Research Award

W. Weil1980	H. R. Johnson1985	T. C. Franklin1991	M. Schlesinger1997
Y. Okinaka1981	H. Leidheiser1986	R. E. White1992	Madhav Datta1998
E. B.udevski1982	J. P. Hoare1987	P. C. Andricacos1993	R. Winand1999
R. C. Alkire1983	H. Y. Cheh1988	M. J. Froment1994	H. Honma2000
L. T. Romankiw1984	D. S. Lashmore1989	D. Landolt1995	D. Kolb2002
R. J. von Gutfeld1984	S. Nakahara1990	T. Osaka1996	J. Switzer2003
J. W. Dini1985			



Electronics Division Award

F. A. Trumbore1970	E. Sirtl1979	B. Schwartz1987	L. C. Kimerling1995
F. C. Palilla1971	J. M. Woodall1980	K. E. Bean1988	H. Huff1996
M. B. Panish1972	G. A. Rozgonyi1981	T. Kamins1989	A. F. Tasch1997
W. A. Pliskin1973	G. W. Cullen1982	D. M. Brown1990	U. M. Gösele1999
B. E. Deal1974	D. W. Shaw1983	C. M. Osburn1991	S. N. G. Chu2000
H. M. Manasevit1975	A. Reisman1984	G. S. Oehrlein1992	S. P. Murarka2001
M. G. Craford1976	S.-M. Hu1985	B. S. Meyerson1993	S. Cristoloveanu2002
A. Y. Cho1977	E. H. Nicollian1986	G. K. Celler1994	T. Ohmi2003
C. M. Wolfe1978			



Energy Technology Division Research Award

M. W. Verbrugge1994	H. R. Kunz1998	R. Selman2001	A. Nozik2003
S. Srinivasan1996	A. W. Czanderna1999	I. Uchida2001	



High Temperature Materials Division Outstanding Achievement Award

J. B. Wagner, Jr.1986	R. A. Rapp1990	S. C. Singhal1994	C. Bernard2001
W. L. Worrell1988	H. Schmalzried1992	C. G. Vayenas1996	H. Yokokawa2002

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

S. Mohnney1999	S. M. Haile2001	M. Swihart2003
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Industrial Electrolysis and Electrochemical Engineering Division H. H. Dow Memorial Student Achievement Award

R. Bakshi1991	M. Vreeke1995	P. Soo.....1998	A. L. Prieto2001
G. J. Yusem1992	A. E. Thomas.....1996	S. Sriramulu.....1999	W. He2002
J. A. Poirier1993	S. A. Leith.....1997	K. M. Jeerage2000	J. Zhang.....2003
S. Siu1994			

Industrial Electrolysis and Electrochemical Engineering Division Student Achievement Award

Y.-E. Sung1995	J. A. Drake1998	C. Arvin.....2000	V. Subramanian.....2002
J. K. N. Mbindyo.....1996	R. Lowrey1999	B. Djurfors.....2001	P. M. Gomadam2003
C. A. Smith1997			



Organic and Biological Electrochemistry Division Manuel Baizer Memorial Award

T. Shono1994	H. Schäfer1998	J. Simonet2000	J. M. Savéant2002
H. Lund1996	S. Torii1998	J. Utley2000	



Physical Electrochemistry Division David C. Grahame Award

F. C. Anson1983	M. J. Weaver1989	R. M. Wightman1995	D. A. Scherson2001
J. Newman1985	B. Miller1991	D. M. Kolb1997	A. Wieckowski.....2003
A. Heller1987	A. T. Hubbard1993	P. N. Ross, Jr.1999	

Physical Electrochemistry Division Max Bredig Award in Molten Salt Chemistry

M. Blander1987	R. A. Osteryoung.....1992	N. Bjerrum1996	Y. Ito1999
G. P. Smith.....1990	G. Mamantov1994	H. A. Øye1998	G. N. Papatheodorou2002



Sensor Division Outstanding Achievement Award

J. Janata1994	I. Lundström1998	A. J. Ricco2000	M. Aizawa2002
R. P. Buck1996			

Honorary Members

Charles F. Chandler1919	Paul J. Kruesi1944	Norman Hackerman1973	Francis L. LaQue1981
Edgar F. Smith1919	Colin G. Fink1946	Henry B. Linford.....1974	N. Bruce Hannay.....1982
Carl Hering1922	Oliver W. Brown1946	Sherlock Swann.....1974	Theodore R. Beck1982
Edward G. Acheson.....1923	John W. Marden1947	Ernest G. Enck.....1975	Vittorio de Nora1982
Wilder D. Bancroft1925	William Blum1953	W. C. Gardiner1975	John L. Griffin1983
Edward Weston1926	Robert M. Burns1959	Ivor E. Campbell1976	Erik M. Pell1983
Thomas A. Edison.....1928	George W. Heise1959	Ernest B. Yeager.....1977	Samuel Ruben1983
W. Lash Miller.....1929	Frank C. Mathers1959	David A. Vermilyea1977	Paul C. Milner.....1986
Edward Dean Adams.....1930	Stanislaus Skowronski.....1962	Charles W. Tobias1977	Harold J. Read1986
Charles F. Burgess1932	Oliver W. Storey1962	Harry C. Gatos1978	Forrest A. Trumbore1986
Frederick M. Becket.....1934	A. Kenneth Graham1963	Ralph M. Hunter.....1979	Douglas N. Bennion1987
L. H. Baekeland.....1936	Howard A. Acheson1971	Dennis R. Turner.....1980	Ralph J. Brodd.....1987
Robert A. Witherspoon1940	Charles L. Faust.....1971	Henry F. Ivey1980	Jerome Kruger1987
Archer E. Wheeler.....1941	Cecil V. King1973	Walter J. Hamer.....1980	Glenn W. Cullen.....1990
W. R. Whitney1944	Herbert H. Uhlig1973	Michael J. Pryor1981	James C. Acheson1990

Honorary Members (cont'd.)

Richard C. Alkire.....1991	V. H. Branneky1991	W. L. Worrell.....1996	L. Faulkner2003
Bertram Schwartz1991	R. S. Karpiuk1996	Barry Miller1999	R. Frankenthal.....2003
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