

ECS

annual report

2006

Expanding Our Reach

The ECS tradition of scientific excellence continued in 2006 with the Society expanding its meetings and publications programs, its geographic reach to members and authors, and its student involvement. ECS held its first joint international meeting with the Sociedad Mexicana de Electroquímica (SMEQ), saw the launch of the ECS Digital Library, added new journal content to its archives, inaugurated new Student Chapters, and concluded its first capital fund-raising campaign—all paving the way for more programs and services in the years ahead.



ECS Digital LIBRARY



Publications

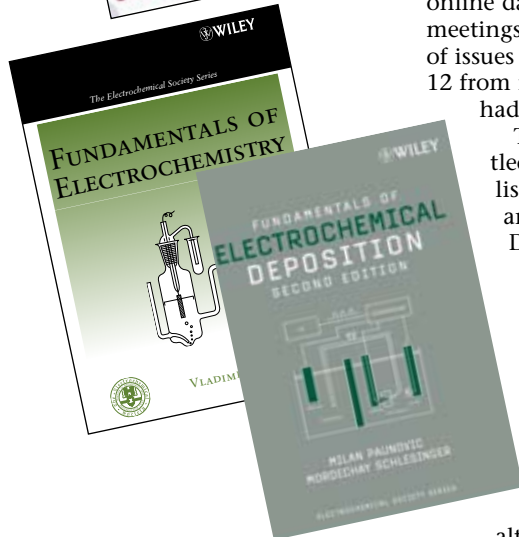
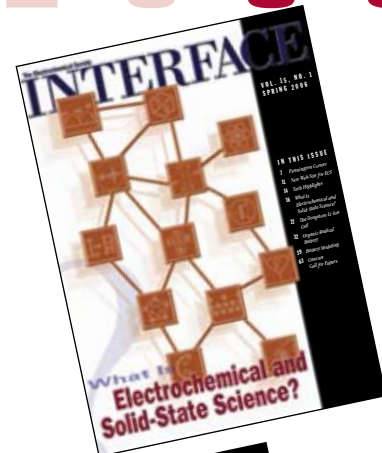
The year 2006 started off with a tremendous new tool for the solid state and electrochemical community—the opening of the **ECS DIGITAL LIBRARY**: All ECS content, in one seamless resource, available all the time. High-quality content—offered in an integrated, easy-to-use way—provides the connectivity so essential in the current scientific community. The ECS Digital Library (ECS DL) opens the doors to this resource, which continues to grow in richness and quantity. The ECS Digital Library is now home to another 21 years of content from the *Journal of The Electrochemical Society* (JES).

Articles from all volumes of JES from 1975 to 1995 have now been scanned, tagged, and indexed, and added to the **ECS DL ARCHIVE**, providing an expanding resource of technical information to DL users. The project benefited from the contributions of several past presidents; for each, a year was designated as their collection: **ROBERT FRANKENTHAL** (1994), **LARRY FAULKNER** (1993), and **RALPH BRODD** (1982).



Cancun, Mexico was the site of the first joint international meeting of ECS, the Sociedad Mexicana de Electroquímica (SMEQ), and the Sociedad Iberoamericana de Electroquímica (SIBAE). Marking this historic occasion were **MANUEL LOPEZ TEJERO** (far left), President of SIBAE; **MARK ALLENDORE**, ECS 06-07 President (second from right); and **LUIS GODINEZ MORA-TOVAR** (far right), SMEQ President. Joining them was **JOSÉ LUIS FERNÁNDEZ ZAYAS** (second from left), of the Universidad Nacional Autónoma de México (UNAM), who delivered the Plenary Lecture.

2006



A completely re-designed **ECS WEBSITE** made its debut in 2006. The first ECS website came about in 1995, so a new look was needed; but more importantly, the structure behind the content needed a complete overhaul. The website design team started with a clean slate, and the resulting design placed the most frequently-used information—such as direct access to all ECS publications and to the current ECS meeting, and news about ECS and its Divisions—right on the home page.

The **ECS JOURNALS** continued under the leadership of Editor **PAUL KOHL** (JES) and **DENNIS HESS** (Electrochemical and Solid-State Letters). They recorded 2,020 submissions in 2006, with impressive growth from the global community: 78% of the submissions came from 55 countries other than the U.S. JES welcomed a new Associate Editor: **ASHOK SHUKLA**. Dr. Shukla is currently the Director of the Central Electrochemical Research Institute in Karaikudi, India.

ECS TRANSACTIONS (ECST) was in its first full year of operation in 2006, and **JOHN WEIDNER**, of the University of South Carolina, was named its first Editor. ECST is an online database publication for content presented at ECS meetings and ECS-sponsored meetings. Online sales of ECST papers and issues began in April 2006. A large number of issues was published: 35 from fall 2005 (Los Angeles), 5 from spring 2006 (Denver), 12 from fall 2006 (Cancun), and 1 from an outside conference. Many of these issues had hardcover editions as well.

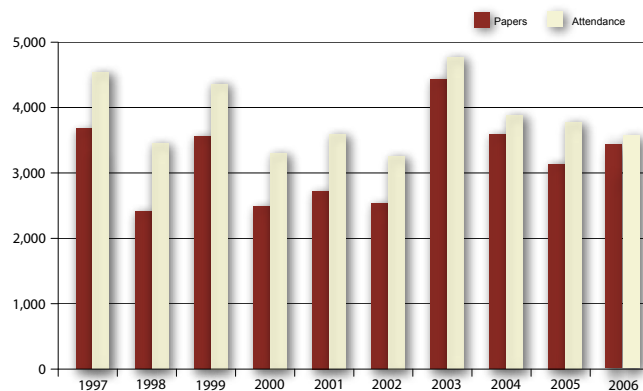
The spring 2006 issue of *Interface*, at 180 pages total, was a special issue entitled, “**WHAT IS ELECTROCHEMICAL AND SOLID-STATE SCIENCE?**” Previously published as a stand-alone booklet, this new version was entirely updated with 13 articles and several sidebars highlighting the technical activities of the various Divisions that form the core of ECS.

The Society’s **MONOGRAPH SERIES** acquired a new title: the second edition of *Fundamentals of Electrochemistry* by **VLADIMIR S. BAGOTSKY**. This new book, published by John A. Wiley & Sons, gives the basic outline of most topics of theoretical and applied electrochemistry for students not yet familiar with this field, as well as an outline of recent and advanced developments in electrochemistry for people who are already dealing with electrochemical problems. Dr. Bagotsky is a retired professor from the Frumkin Institute of Electrochemistry at the Russian Academy of Sciences. In addition to this important contribution to the body of work on electrochemistry, Dr. Bagotsky will leave another legacy: he is contributing all of his royalties to ECS, for which the Society would like to express its sincere thanks.

In addition, one of the classics in the Society’s series, *Fundamentals of Electrochemical Deposition*, was published in a second edition. The book is authored by **MILAN PAUNOVIC**, formerly of IBM Research Division and **MORDECHAY SCHLESINGER**, of the University of Windsor in Canada.

ECS Meetings

Paper submission and attendance.



Meetings

The Society met in **DENVER, COLORADO** for the third time, for the spring 2006 meeting, attracting 1,396 attendees, presenting 1,285 papers in 38 topical symposia. Ralph Overend, Research Fellow of the National Renewable Energy Laboratory, presented the plenary lecture entitled, “Renewable Energy: Progress and Promise.”

The fall 2006 meeting, held in **CANCUN, MEXICO**, was comprised of the 210th Meeting of the Electrochemical Society, XXI Congreso de la Sociedad Mexicana de Electroquímica (SMEQ) and technically cosponsored by the Sociedad Iberoamericana de Electroquímica (SIBAE). This marked the first joint international meeting among the societies. José Luis Fernández delivered the plenary address: “Mexican Policy on Science and Technology; International Collaboration.” ECS expanded its reach into Central America for the first time: Cancun proved to be

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The Plenary Lecturer for the Denver meeting was **RALPH OVEREND** (center), who spoke about “Renewable Energy: Progress and Promise.” **BARRY MACDOUGALL** (left), ECS Vice-President, and colleague of Dr. Overend’s, introduced the speaker. ECS 05-06 President **BILL SMYRL** (right) joined them for this photo.



The 2006 Henry B. Linford Award was presented to **DEREK PLETCHER** (left) by ECS 05-06 President **BILL SMYRL**. The award is given for excellence in teaching in subject areas of interest to ECS.



FLORIAN MANSFELD (center) was presented with the 2006 Vittorio de Nora Award. Prof. Mansfeld received the award from ECS 05-06 President **BILL SMYRL** (left), and was introduced by his longtime friend and colleague, **WOLFGANG LORENZ** (right).

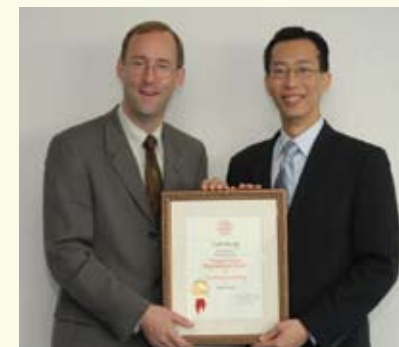
cancun MEXICO



ECS 06-07 President **MARK ALLENDORF** (front row, center) inducted the 2006 Class of ECS Fellows. Pictured in the front row, from left to right, are: **ANIL VIRKAR**, **ALBERT G. BACA**, (Allendorf), **MARK ORAZEM**, and **GERALD FRANKEL**. In the back row, from left to right, are: **NOBUYOSHI KOSHIDA**, **HARUMI YOKOKAWA**, **BARRY MACDOUGALL**, **HISHAM MASSOUD**, **DURGA MISRA**, and **SUPRIYO BANDYOPADHYAY**. Unable to attend the ceremony were new Fellows **THOMAS FAHIDY**, **CHENNUPATI JAGADISH**, **JEAN LESSARD**, and **ANDRZEJ WIECKOWSKI**.



The 2006 Edward G. Acheson Medal, was awarded to **VITTORIO DE NORA**, who could not be in Cancun to accept the award. **RENE VON KAENEL** (right), President of MOLTECH, received the medal on behalf of Dr. de Nora from ECS 06-07 President **MARK ALLENDORF** (left).



HOCK MIN NG (right) is the second recipient of the ECS Charles W. Tobias Young Investigator Award. He received the award from ECS 06-07 President **MARK ALLENDORF** (left).



The **TECHNICAL EXHIBIT** in Cancun featured over 30 companies, with presentations of instruments, technology, and publications. The blank poster boards in the background were ready for the 84 student posters on Monday night and the 438 posters from other sessions.

a favorable choice, as evidenced by the 2,221 attendees, presenting 2,185 papers in 50 topical symposia. In addition to the excellent technical program and exquisite beach setting, another highlight was the sold-out Cena Baile Dinner and Dance Party, a traditional Mexican celebration and a first for ECS. Another first for ECS was the all-inclusive pricing, which entitled attendees to unlimited food and beverages during the meeting. A record number of room nights booked at the meeting hotel, The Moon Palace Resort Hotel, indicated its popularity with attendees.

Membership



The Leadership Circle Awards recognize long-term supporters of the Society. At the Denver meeting, three Corporate Members were recognized by ECS 05-06 President **BILL SMYRL** (center). **LILI DELIGIANNI** (left) received a Diamond Level award for 50 years of support by **IBM CORPORATION**. A Bronze Level award was presented to **RALPH BRODD**, for 5 years of support from **BRODDARP OF NEVADA**. Unable to make the presentation ceremony was **DURACELL**, which was later presented with a Diamond Level award for 50 years of support.

ECS continues to be an organization run by the members for the benefit of all members throughout the world. **MEMBERSHIP** in ECS has changed quite a bit in the past 25 years: Dues *ca.* 1980 were only \$40 for active members and \$4 for student members, compared with \$95 and \$15 in 2006. In comparison to the cost of living index, ECS membership dues have actually decreased when measured in current (2006) dollars. What is more important, however, is that the members get much more value for their dues now including our quarterly *Interface* magazine; the top-ranked JES and ESL; significant discounts on all our other publications and meetings; and the powerful information retrieval tools available from the new ECS Digital Library.

The **CORPORATE AFFILIATES** programs generated an excellent amount of participation from our industrial partners in 2006. The number of corporate members grew to 72 companies accounting for revenues of over \$100,000. Seven existing corporate members renewed their memberships at higher levels to take advantage of an ever improving package of benefits. Meeting sponsorship set new records with the fall meeting in Cancun witnessing a record number of sponsors, 42, providing over \$110,000 in support for our first event in Latin America. Overall, 147 companies partnered with ECS in 2006 through one of our four corporate programs.

Education

The ECS **IE&EE DIVISION OUTREACH PROGRAM** was inaugurated at the joint international meeting in Cancun in the fall of 2006. This program succeeded in educating 65 high school and 100 undergraduate freshmen Cancun students in the area of hydrogen polymer electrolyte membrane (PEM) fuel cells. The Division purchased four fuel cell model cars used by the students in a competition to see who could estimate the hydro-



gen required to fuel their cars to go a measured distance. The student team that came closest to the mark won. The fuel cell model cars were donated by the Division to the various schools that participated.

The fall 2006 issue of *Interface* was dedicated to the topic of Education. Experts in various frontier areas contributed papers that described emerging challenges, and elaborated on how well current electrochemical education (in its broadest sense, which encompasses solid state science and technology) prepares the next generation of scientists and engineers to tackle these challenges. In addition, the issue reported on some wonderful ideas and concepts that help integrate new ideas and concepts into electrochemical education.

The Society's "**XYZ FOR THE REST OF US**" program, begun in the spring of 2001, is a series of informal talks intended to educate meeting attendees about areas outside of their immediate domain and to promote discussion and cross-Society interactions. Charles R. Martin spoke about "Bio/Nanoscience and Electrochemistry" at the spring 2006 meeting; and James Fenton gave everyone an inside look at "Polymer Electrolyte Fuel Cells" at the fall meeting in Cancun.

Sections & Chapters



ECS 06-07 President **MARK ALLENDORF** (right) presented the 2006 Gwendolyn B. Wood Section Excellence Award to the San Francisco Section. Receiving the award was **OANA LEONTE**, the Section Treasurer. The award honors those Sections whose level of activity serves to strengthen the Society and rewards a Section's good management and operations.

The Society's **STUDENT CHAPTER** program expanded to ten universities in 2006, including two outside the United States. Chapters operate similar to ECS Sections, often working in collaboration with them, and give students a chance to take on leadership roles that will help them in their careers and as active ECS members of the future. 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 community services. Each of the Student Chapters received financial support from the Society, made possible by contributions made to the Centennial Campaign.

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The ECS IE&EE Division launched a new **OUTREACH PROGRAM** during the Joint International Meeting in Cancun. Pictured above are the participants in the program. In the back row, beginning at the left, are **VENKAT SUBRAMANIAN**, Tennessee Tech University; **DENNIE MAH**, DuPont Company and chair of the IE&EE Division; **YSMAEL VERDE**, Instituto Tecnológico de Cancun (ITC); and **M. C. ERASMO MARTINEZ RODRIGUEZ**, Director of ITC. In the middle row, on the left, is **GERARDINE BOTTE**, Ohio University, who facilitated the active learning program. The students (in white shirts and holding certificates) were the winning team. The student in the front row, center, is holding one of the fuel cell model cars.



Mexican newspapers, such as the one pictured here, and television stations covered the ECS IE&EE outreach program in Cancun.

ECS Student Chapters

- ECS Cleveland Section and Ernest B. Yeager Center for Electrochemical Sciences Joint Student Chapter, founded 2005; Dan Scherson, Advisor
- New York Capital Region Student Chapter, founded 2006; Glen Eisman, Advisor
- Technical University Brno Student Chapter, founded 2006; Jiri Vondrak, Advisor
- The Ohio State University Student Chapter, founded 2006; Gerald Frankel, Advisor
- University of California, Berkeley Student Chapter, founded 2006; John Newman, Advisor
- University of Central Florida Student Chapter, founded 2000; Kalpathy Sundaram, Advisor
- University of Florida Student Chapter, founded 2005; Eric Wachsman, Advisor
- University of Rome "Tor Vergata" Student Chapter, founded 2006; Enrico Traversa, Advisor
- University of Texas at Austin Student Chapter, founded 2006; Ram Manthiram, Advisor
- University of Virginia Student Chapter, founded 2006; Rob Kelly, Advisor

Fundraising

The Society concluded its first capital campaign, the **CENTENNIAL CAMPAIGN**, in 2006 with over \$700k raised through over 1,100 donations from 32 countries. Support from members, corporations, and friends of ECS made a number of new programs and initiatives possible over the past five years. The area that witnessed the greatest growth was our awards and recognition program with five awards and grants funded through contributions.

The **ORONZIO DE NORA INDUSTRIAL ELECTROCHEMISTRY FELLOWSHIP** was established by a five year pledge of from the Oronzio de Nora Foundation to support a postdoctoral scientist or engineer engaged in industrial electrochemistry research. The **CHARLES W. TOBIAS YOUNG INVESTIGATOR AWARD** was endowed through contributions from members and friends of the former ECS president to recognize outstanding scientific and/or engineering work in fundamental or applied electrochemistry or solid-state science and technology by a young scientist or engineer. The **MASAYUKI DOKIYA SYMPOSIUM FUND** was created in memory of the late Dr. Dokiya and made possible by a major gift from his wife. The Fund aims at supporting young researchers in attending international symposium and presenting papers in the areas in which he was once involved. The Society's highest award for solid-state science was renamed to honor 50-year member, Gordon Moore. The newly named **GORDON E. MOORE MEDAL FOR OUTSTANDING ACHIEVEMENT IN SOLID STATE SCIENCE AND TECHNOLOGY** was endowed through donation by the company he founded, the Intel Corporation. And, efforts continue to endow the **HERBERT H. UHLIG SUMMER FELLOWSHIP**, which will be the fifth fellowship that ECS offers students, and first to be established in honor of a member since 1961.

In order to maintain focus on wise, responsible institutional growth, ECS engages in annual strategic planning. Through this planning, and the continued feedback of its members and volunteer leaders, ECS will continue to meet the challenge of keeping pace with the dramatic expansion of scientific activity around the world. ■

membership statistics*(as of October 1, 2006)*

Table I. ECS Membership by Class

Category	2001	2002	2003	2004	2005	2006	2006/2005 %Change
Active	5525	5297	5411	5405	5126	5061	-1.3
Member Reps	79	58	63	66	61	73	16.4
Life	57	51	52	46	46	46	0.0
Emeritus	235	247	246	215	230	229	-0.4
Honorary	27	26	29	27	25	24	-4.2
Subtotal Active in Good Standing	5923	5679	5801	5759	5488	5433	-1.0
Delinquent	851	961	797	823	1054	1014	-3.9
Total Active on Record	6774	6640	6598	6582	6542	6447	-1.5
Students	876	869	882	889	792	864	8.3
Delinquent	382	315	330	389	450	440	-2.3
Total Students	1258	1184	1212	1278	1242	1304	4.8
Total Individual Members	8032	7824	7810	7860	7784	7751	-0.4

Table II. ECS Membership by Section

Section	2001	2002	2003	2004	2005	2006	2006/2005 %Change
Arizona		106	122	125	115	132	12.9
Brazilian	47	45	34	32	39	42	7.1
Canadian	220	213	223	241	292	258	-13.2
Chicago	161	149	178	174	162	166	2.4
Cincinnati	54	52	46	57	48	53	9.4
Cleveland	107	123	125	135	122	114	-7.0
Detroit	106	94	90	95	81	92	12.0
European	1025	1029	1178	1033	1062	1019	-4.2
Georgia	163	173	172	198	161	154	-4.5
Israel	42	34	35	35	30	28	-7.1
Japan	692	698	754	774	755	757	0.3
Korea	235	213	224	197	192	175	-9.7
Metropolitan New York	388	337	322	315	—	—	—
National Capital	253	238	217	212	186	200	7.0
New England	344	347	353	351	326	318	-2.5
Pittsburgh	101	88	89	84	88	89	1.1
San Francisco	422	404	379	419	383	387	1.0
Texas	167	183	172	198	178	181	1.7
Twin Cities	98	80	77	85	92	91	-1.1
Non-Section	1800	1668	1632	1767	1980	2042	3.0

Table III. ECS Membership by Division*

Division	2001	2002	2003	2004	2005	2006	2006/2005 %Change
Battery	2314	2381	2500	2625	2549	2511	-1.5
Corrosion	1535	1561	1682	1716	1656	1584	-4.5
Dielectric Science & Technology	1409	1328	1399	1425	1339	1278	-4.8
Electrodeposition	1610	1660	1802	1888	1782	1727	-3.2
Electronics & Photonics	2234	2118	2154	2152	1999	1812	-10.3
Energy Technology	1797	1935	2155	2377	2427	2434	0.3
Fullerenes, Nanotubes and Carbon Nanostructures	234	287	503	706	687	713	3.6
High Temperature Materials	899	923	1061	1113	1096	991	-10.6
Industrial Electrochemistry & Electrochemical Engr	1175	1221	1365	1454	1393	1343	-3.7
Luminescence & Display Materials	698	690	777	841	793	701	-13.1
Organic & Biological Electrochemistry	953	984	1112	1243	1122	1026	-9.4
Physical & Analytical Electrochemistry	2317	2368	2500	2614	2554	2426	-5.3
Sensor	994	1077	1253	1419	1382	1271	-8.7

*A member may be included in the count of several Divisions

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2006

corporate partners

(companies listed in bold are new for 2006)

3M Company
 Advance Research Chemicals
 Agilent Technologies
Air Liquide
 AIXTRON AG (Germany)
AmberWave Systems
 AnnealSys (France)
Applicable Electronics
Applied Materials
Applied Microengineering (United Kingdom)
Applied Nanofluorescence
 Arbin Instruments
 ASM (Netherlands)
 Atotech USA
 BAE Systems Applied Technologies Inc.
 Ballard Power Systems (Canada)
 Battery Power Magazine/Webcom
 Communications
Bioanalytical Systems
 Brinkmann Instruments, Inc.
 Broddarp of Nevada
Brookhaven National Lab
Bruker AXS
 C. Uyemura & Co., Ltd. (Japan)
Cambridge NanoTech
Canon Anelva (Japan)
 Central Electrochemical Research Institute (India)
Centrotherm Thermal Solutions (Germany)
Coolohn, Inc.
 CSIRO Minerals (Australia)
CSMA Ltd.
 Daiso Co., Ltd. (Japan)
 De Nora Technologie Electrochimiche S.r.l. (Italy)
 Degussa AG (Germany)
 Dow Chemical
DuPont Fuel Cells
 E.I. DuPont de Nemours, HD Microsystems
 Duracell
ECHEM (Austria)
 ECO Energy Conversion
eDAQ, Inc
 ElectroChem, Inc.
 Electrosynthesis Company, Inc.
 ELTECH Systems Corporation
EMD Chemicals
 Energizer Battery
 ESA Inc./Cypress Systems
 E-TEK Division De Nora North America, Inc.
ExxonMobil
Faraday Rechnology
Fluent
 FMC Corporation, Active Oxidants Division
 FSI International
 FuelCon Systems

FUMATECH (Germany)
 Gamry Instruments
 General Electric Co., Global Research
 General Motors Research Laboratories
 Giner, Inc.
Gore Fuel Cell Technologies
 Greatbatch
 Hach Company, Radiometer Analytical Division
Hitachi Kokusai Electric (Japan)
Hosokawa Micron Powder Systems
 IBM
The Institution of Engineering and Technology
 Intel
 International Lead Zinc Research Organization,
 Inc.
IPS (Korea)
 IVIUM Technologies (Netherlands)
John Wiley & Sons
Johnson Matthey (United Kingdom)
 Jusung Engineering (Korea)
 Koslow Scientific
 Lawrence Berkeley National Laboratory
 Leclanche SA (Switzerland)
Luna Nanoworks
Luxtera
 Maccor, Inc
 MALT Group (Japan)
 Materials Today/Elsevier Ltd (United Kingdom)
Matheson Tri-Gas
 Matsushita Battery Industrial Co (Japan)
 Mattson Technology
MAS Instrumentos (Mexico)
 Max-Planck-Institut fur Festkorperforschung
 (Germany)
 Medtronic, Inc.
 Mine Safety Appliances Company
 Molecular Imaging Corp.
 Nacional de Grafite, LTDA (Brazil)
Nissan Motor Co. (Japan)
 Novocontrol America, Inc
 Occidental Chemical Corp.
 Olin ChlorAlkali Products Division
 OM Group, Inc.
 Osram Sylvania, Inc.
Oxford Instruments (United Kingdom)
Panasonic Energy Solutions Lab
 PEC North America
PEMEAS Fuel Cell Technologies
Penn State University
 Permascand AB (Sweden)
 Permelec Electrode Ltd (Japan)
 Philips France, Division Eclairage (France)
 Philips Semiconductors (Netherlands)
 Pine Research Instrumentation

PPG Industries
 Princeton Applied Research
QUALCOMM
 Quallion, LLC
 Redox Engineering
 Rohm and Haas Electronic Materials
 Saft America
 Samsung SDI Co., Ltd. (Korea)
 Sandia National Labs
SATELSA (Mexico)
 Scribner Associates
 Semitool, Inc
SES Research
Seven Mountains Scientific
SEZ Group (Austria)
 Sigma Aldrich
 Siltronic (Germany)
SOITEC (France)
 Spectrum Brands (formerly Rayovac)
 Springer
Synkera Technologies
Tanaka Kikinzoku Group (Japan)
Taylor & Francis Group
 TDK Corporation, Research & Development
 Center (Japan)
 Technic, Inc.
Technologies & Devices International
Test Solutions
 TIMCAL Graphite and Carbon Ltd. (Switzerland)
Tokyo Electron
 Toshiba Corporation, Research & Development
 Center (Japan)
 Toshiba Fuel Cells Corporation (Japan)
 Toyota Central Research & Development Labs,
 Inc. (Japan)
Toyota Technical Center USA
Tracit Technologies (France)
 Tronox LLC (formerly Kerr-McGee Chemical)
University of Florida
 UTC Fuel Cells
 Valence Technology
 Varta Automotive GmbH - Advanced Battery
 Division (Germany)
 Yeager Center for Electrochemical Sciences at
 CWRU
 Yuasa Corp. (Japan)
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**THE ELECTROCHEMICAL SOCIETY
AND SUBSIDIARIES**
Consolidated Statement of Financial Position
(Years ended December 31, 2006 and 2005)

Assets	2006	2005
Cash.....	\$167,331	\$139,791
Accounts receivable, less allowance of \$4,000.....	186,502	169,847
Contributions receivable	3,350	9,700
Inventories.....	5,823	14,341
Prepaid expenses, deposits, and other assets	337,421	155,832
Investments in marketable securities	8,406,906	8,285,909
Investment in real estate, including construction in progress.....	2,239,453	1,850,459
Land	350,608	350,608
Buildings, less accumulated depreciation of \$53,328	213,331	219,997
Total assets.....	\$11,910,725	\$11,196,484

Liabilities and Net Assets	2006	2005
Liabilities:		
Accounts payable and accrued expenses.....	\$ 415,670	\$177,931
Deferred revenue	477,480	630,942
Security deposits	23,503	25,005
Deferred compensation	21,682	32,120
Total liabilities	938,335	865,998
Net assets:		
Unrestricted:		
General operating	328,408	396,447
Investment in land and buildings	563,939	570,605
Custodial	8,497,020	7,890,178
Designated.....	488,636	517,686
Designated earnings.....	131,371	142,509
Sections	122,265	116,905
Total unrestricted	10,131,639	9,634,330
Temporarily restricted.....	320,551	325,956
Permanently restricted.....	520,200	370,200
Total net assets	10,972,390	10,330,486
Total liabilities and net assets	\$11,910,725	\$11,196,484

See accompanying notes to consolidated financial statements.

Consolidated Statement of Activities
(Years ended December 31, 2006 and 2005)

Revenues	2006	2005
Publications	\$2,081,124	\$2,074,408
Membership.....	669,706	613,065
Society meetings and activities.....	1,287,561	1,557,118
Interest and dividend income	355,694	274,746
Contributions and grants	360,449	167,653
Rental income	389,695	400,444
Other revenues.....	14,601	38,914
Net assets released from restrictions for awards	(6,350)	(10,325)
Total revenues and other support	\$5,152,480	\$5,116,023

Expenses	2006	2005
Program services:		
Publications	\$2,353,624	\$2,027,294
Membership.....	201,225	192,986
Society meetings and activities.....	776,085	1,065,450
Awards, fellowships, and grants	360,492	281,342
Total program services	3,691,426	3,567,072
Supporting services:		
General and administrative	909,050	796,845
Rental operations.....	315,202	318,442
Total supporting services	1,224,252	1,115,287
Total expenses	4,915,678	4,682,359
Increase in net assets from operations	236,802	433,664
Nonoperating gain (loss):		
Net change in fair value of investments	405,102	(14,524)
Net transfer to custodial and designated.....	—	—
Increase (decrease) in net assets.....	641,904	419,140
Net assets as of beginning of year.....	10,330,486	9,911,346
Net assets as of end of year	\$10,972,390	\$10,330,486

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 subsidiaries, ECS Holdings LLC and ECS Fifty-Nine Holding LLC (through May 31, 2006). 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 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

(continued on next page)

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, 2006:

Money market funds.....	\$1,273,041
Equity mutual funds.....	3,618,615
Short-term corporate fund.....	196,791
Certificates of deposit	2,115,836
Corporate and US bonds.....	1,176,913
Accrued Interest receivable.....	25,710
Real Estate (ECS Holdings LLC)	2,239,453
Total.....	\$10,646,359

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, 2006.)

4—Independent Accounting Firm

The Society engaged the services of the independent accounting firm, Noble & Noble LLP, to conduct the 2006 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 and subsidiaries as of December 31, 2006, 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.

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 2006 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.

Based on the discussions referred to above, the ECS Audit Subcommittee has recommended for acceptance to the Board of Directors the audited financial statements for the year ended December 31, 2006. The Subcommittee has also recommended the retention of Noble & Noble LLP as the Society's independent auditors for the year ending December 31, 2007.

contributors to the ECS centennial campaign

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

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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

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



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



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



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
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. Brannely	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

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. Nicollian	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
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
Kuzhikalai 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

(continued on next page)

2006

(Fellows continued)

Toshio Shibata	2002
Sorin Cristoloveanu	2002
David Duquette	2003
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

**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. Ruemmier	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. Kordesch	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
L. P. Zujewski, Jr.	2003
J. Seegmiller	2004
E. Blair	2005
F. Laforge	2006

**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

**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
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

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

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. Grachtchak	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

**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

(continued on next page)

2006

(Norman Hackerman Young Author Award continued)

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
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 Enckevort	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. Kunimatsu	2006
S. Borini	2006

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. Hoekelman	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

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

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



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

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. Odneval	1996
D. G. Kolman	1997
C. S. Brosia	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



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



Electronics and Photonics Division Award

F. A. Trumbore	1970
F. C. Paila	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



Energy Technology Division Research Award

M. W. Verbrugge	1994
S. Srinivasan	1996

(continued on next page)

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



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



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

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

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
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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

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