



ECS ANNUAL REPORT

2012

Advancing the Science

It gives us great pleasure to present the 2012 annual report which includes information about many successful initiatives and activities that we delivered last year. The Society's success is measured by our progress in meeting the goals and objectives set by our mission, which is to disseminate information to advance electrochemical and solid state science and technology. The initiatives described in this annual report reflect numerous advancements in our meetings and publications programs during the past year that have advanced the ECS mission.

In July, ECS launched three new journals to advance and diversify the stable of publications in the ECS Digital Library. We now publish two full-paper, peer-reviewed journals: our flagship *Journal of The Electrochemical Society* (JES), which contains papers in electrochemical science and technology, and *ECS Journal of Solid State Science and Technology* (JSS) covers solid state science and technology. Similarly, we publish two peer-reviewed letters journals with the papers divided in the same way. These two new letters journals, *ECS Electrochemistry Letters* (EEL) and *ECS Solid State Letters* (SSL), took the place of the very successful *Electrochemical and Solid-State Letters*.

As part of the launch, we moved the **ECS Digital Library platform** from AIP's Scitation to Stanford University's HighWire Press to provide greater discoverability of the content and improved services to researchers in the field. In addition to the current issues of our four journals, the Digital Library includes the journals archives dating back to 1930. It also contains the *ECS Meeting Abstracts* and a complete set of the *ECS Transactions*. The total number of technical papers in the library will exceed 100,000 in 2013. The entire body of knowledge in the Digital Library is available to members through their 100 article download pack as part of the membership benefits package.

(continued on next page)

ECS Meeting Abstracts and *ECS Transactions* are published from content presented at ECS biannual meetings and other sponsored meetings and conferences. The connection between ECS publications and our meetings—especially in terms of technical content—is extremely strong, and a driving force behind our mission to disseminate scientific research. ECS meetings have been advanced by both technological improvements and the relevance of our science, and the 2012 biannual meetings **abstract submissions** (5,664) and **attendance** (5,520) were at an all-time high.

Another factor influencing publications and meetings is the broadening international scope of the science. We conducted our sixth **Pacific Rim Meeting on Electrochemical and Solid State Science (PRiME)** in October—the largest meeting in electrochemistry ever held, with 4011 papers presented. From the first PRiME held in 1987 this meeting has involved a joint partnership with the Electrochemical Society of Japan. It now includes sponsorship from four other technical societies: Japan Society of Applied Physics (JSAP), Korean Electrochemical Society (KECS), Chinese Society of Electrochemistry (CSE), and the Electrochemistry Division of the Royal Australian Chemical Institute (RACI).

We also conducted our second **Electrochemical Energy Summit (E2S)** at the fall 2012 meeting, which provided attendees with the chance to meet and learn from industry leaders, electrochemical researchers, and other scientists with an understanding of the critical challenges in global energy. This multi-day exchange of information, brainpower, and technological possibilities helped foster the communication between policy makers and energy stakeholders—essentially a universal audience—about the opportunities of electrochemical energy systems, and provided researchers with a platform to develop globally critical solutions and systems.

With the excellent participation in our programs comes strong financial support and in 2012 we experienced a net operating surplus of \$820K. These are important funds that will be used to support the high cost of technological advancements and program development, and to support our endowments. Growth in our endowments is important because there are growing challenges with generating financial support through membership and subscription revenues, so our financial goals include utilizing funds from endowments to support a large portion of our operating expenses. This is the main reason we have re-initiated fund raising activities and reestablished a development office within ECS.

Never in our history have we experienced this level of interest and importance in electrochemical and solid state science and technology programs. It's a great time to be in electrochemistry and the research conducted by ECS members is influencing the sustainability of our planet. The ECS Board of Directors is always looking for opportunities to better serve our community and advance the critically important science of electrochemistry.



Fernando Garzon

Fernando Garzon
ECS President



Roque J. Calvo

Roque Calvo
ECS Executive Director

Publications



The new ECS journals—continuing to meet the needs of the electrochemical and solid state science and technology community.

The year 2012 was a watershed year for the Society to advance the science, with the launch of **three new journals**. ECS has long been recognized as the society for a broad scientific and engineering field covering electrochemistry and solid state science and technology. Our journals, meetings, and networking activities combine to make us the only organization encompassing this rich technical domain. From energy storage and conversion to electrochemical engineering, to electronic, photonic, and other solid state materials and devices, our mission to disseminate information in these areas has never been more relevant.

state science. The Society was privileged to publish a number of monographs by **Vladimir Bagotsky**, the latest of which was the second edition of *Fuel Cells: Problems and Solutions*. (See *Interface*, spring 2013, for an “ECS Classics” article on this amazing scientist.)

While much of the Society’s focus is on enabling the presentation of science, both through meetings and publications, it also acknowledges achievements in many areas, including the publication of sound work. The **Norman Hackerman Young Author Awards** were established in 1928 to do just that. Through 2012, there is one award for the two best papers published in the *Journal of The Electrochemical Society*—one for topic in the field of electrochemical science and technology; and the other for solid-state science and technology. With the advent of the new journals, the Society has created a separate award for papers from the new *ECS Journal of Solid State Science*. The latest awards were presented to their recipients at the PRiME 2012 meeting in Hawaii.



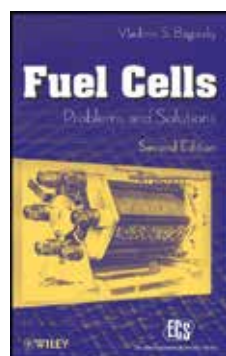
ECS President **Esther Takeuchi** (far right) thanked members of the Editorial Boards for their dedication to making the Society journals leaders in electrochemistry and solid state science and technology. From left to right are: **Doron Aurbach, John Weidner, Dennis Peters, Chuck Hussey, Dennis Hess, Stefan DeGendt, Andy Gewirth, and Petr Vanýsek**. Not able to attend were **Jennifer Bardwell, George Celler, Francis D’Souza, Jerry Frankel, Tom Fuller, Ray Gorte, Takayuki Homma, Yue Kuo, Kailash Mishra, Rangachary Mukundan, and Martin Winter**.



Claudia Fleischmann (left), one of the winners of the 2011 Norman Hackerman Young Author Award in Solid State Science & Technology, received her award from ECS President **Fernando Garzon** (right). Unable to attend the award presentation were the other three winners, **Sebastien Couet, Koen Schouteden, and Philipp Hönicke**.



Igor Volov (left), winner of the 2011 Norman Hackerman Young Author Award in Electrochemical Science & Technology, received congratulations from ECS President **Fernando Garzon** (right).



Vladimir Bagotsky’s Fuel Cells: Problems and Solutions (2nd edition), published in 2012, became part of the Society’s monograph series.

Our flagship *Journal of The Electrochemical Society* (JES) has been in publication since our founding in 1902, and continues to be one of the most-highly cited journals in electrochemistry. The new journals, which joined JES, made their debut in July along with the launch of the ECS Digital Library on the HighWire platform. The new journals are: *ECS Journal of Solid State Science and Technology* (JSS), *ECS Electrochemistry Letters* (EEL), and *ECS Solid State Letters* (SSL). With these changes, the journals also began publishing special focus issues to highlight areas of current interest and future promise.

Even in the fast-paced era of article publishing, the **ECS monograph series** plays an important role in disseminating the world’s best electrochemical and solid

Meetings

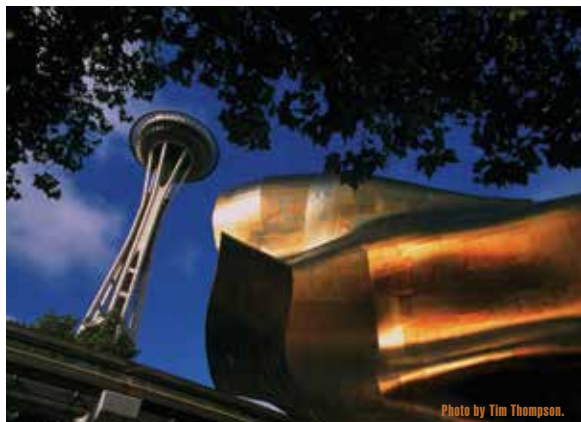


Photo by Tim Thompson.

Seattle, WA
May 6-10, 2012



221st ECS Meeting

Many of the Society's symposia have to do with very important aspects of energy research; but another issue is emerging as an important ECS topic as well: **clean water**. ECS has a unique opportunity to provide a forum for the presentation of original research and innovation that can have an impact on the future direction of clean water technologies, and provide viable solutions for current and future needs. The **Clean Water Technologies symposium in Seattle** did just that. The symposium also was fortunate to have as a speaker Doulaye Kone, Senior Program Officer with the Bill & Melinda Gates Foundation, who provided an update on, and continuing challenges to the Water, Sanitation & Hygiene program of the Foundation.

Beginning with the Seattle meeting, a number of changes were made to the **tools for meeting participants**. For the first time, the PDFs of *ECS Meeting Abstracts* became accessible through the meeting app. As a result, the Society was able to meet its commitment to programming "green" meetings and abstracts were available only through the app or the online meeting scheduler. The Society also moved to a new vendor (The Conference Exchange, or "Confex") to provide abstract submission and production services.



Bruno Scrosati delivered *The ECS Lecture* at the Society's 221st Meeting—on the topic of "Will It Be a Tank of Lithium to Drive Our Next Car?"—to a packed audience in Seattle.



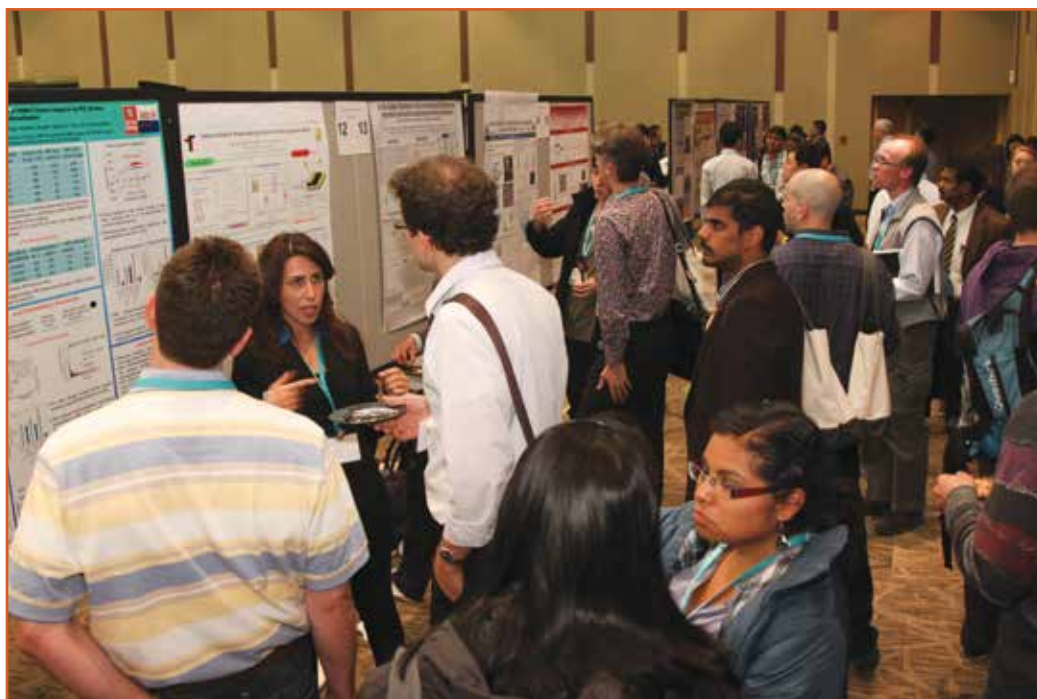
Bruno Scrosati (right) was the recipient of the 2012 *ECS Vittorio de Nora Award*. At left is ECS President **Esther Takeuchi** presenting Prof. Scrosati with the *de Nora Award*. The *de Nora Award* is one of the Society's highest honors, given to recognize major achievements in the field of electrochemical engineering and technology.



Esther Takeuchi (left), ECS President, presented Mark Orazem (right) with the 2012 ECS Henry B. Linford Award for Distinguished Teaching, which is given for excellence in teaching in subject areas of interest to the Society.



Peter Bruce (right) received the 2011 ECS Carl Wagner Memorial Award from ECS President Esther Takeuchi (left). The Carl Wagner Award is given for mid-career achievement and excellence in research areas of interest of the Society, and significant contributions in the teaching or guidance of students or colleagues in education, industry, or government.



The Student Poster Session was in full swing at the Monday Evening Get-Together in Seattle.



*ECS President **Esther Takeuchi** (right) welcomed **Diana Cristina Martinez-Casillas**, the 2011 first place winner of the poster session at the XXVI National Congress of the Sociedad Mexicana de Electroquímica (SMEQ) and meeting of the ECS Mexico Section.*



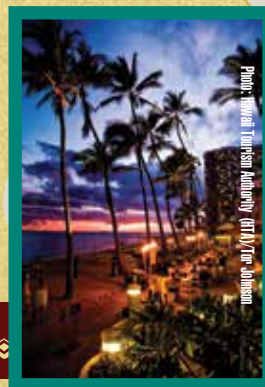
*The 2012 ECS F. M. Beckett Summer Fellowship winner, **Celeste Morris** (at left), of Indiana University, received congratulations from ECS President **Esther Takeuchi** (right) at the ECS meeting in Seattle.*



*Recipients of the Seattle ECS Student Poster Session Awards received their certificates at the Annual Society Business Meeting & Luncheon from ECS President **Esther Takeuchi** (5th from left). From left to right are **Oana Leonte** (judge), **Kalpathy Sundaram** (Co-Chair), **K. Sykes Mason**, **Michael Siedlik** (Takeuchi), **Yoon Jang Kim**, **Prabhu Doss Mani**, **Aurelien Etienne**, **Venkat Subramanian** (Co-Chair), and **Dan Schwartz** (faculty advisor for Michael Siedlik).*

All Seattle Meeting photos are by Steve Schneider Photography, Shoreline, WA.

PRIMETM
PACIFIC RIM MEETING
 ON ELECTROCHEMICAL
 AND SOLID-STATE SCIENCE



PRiME 2012 ♦ **Honolulu, HI** ♦ **October 7-12, 2012**

The joint international meeting of:

222nd ECS Meeting

The Electrochemical Society of Japan—2012 Fall Meeting

With over 4,000 abstracts, the 2012 edition of the **Pacific Rim International Meeting on Electrochemistry and Solid State Science (PRiME)** was the largest meeting ever held in these scientific areas. Begun in 1987, and held every four years, PRiME is a joint international meeting of ECS and **The Electrochemical Society of Japan (ECSJ)**. Over the years, the meeting has also attracted the technical co-sponsorship of other electrochemistry societies, including the **Japan Society of Applied Physics**, the **Korean Electrochemical Society**, the **Electrochemistry Division of the Royal Australian Chemical Institute**, and the **Chinese Society of Electrochemistry**.

The six days of the meeting seemed way too short to take in even a small selection of technical talks, let alone the Electrochemical Energy Summit, Short Courses, Professional Development Workshops, poster sessions, various receptions, and the traditional closing luau. Of note were the special award talks, including those by **Tadashi Matsunaga** (“Cell Bioelectrochemistry and Biomagnets”) and **Dennis Hess** (“Plasmas for Thin Film Processing and Surface Modification”). The abundance of programming required two locations, with talks and events held at both the Hilton Hawaiian Village and Hawaii Convention Center.



Gathering before the **PRiME 2012 plenary session** were (from left to right): **Fernando Garzon**, President of ECS; **Hideaki Matsuoka**, President of The Electrochemical Society of Japan; **Tadashi Matsunaga**, the plenary speaker; **Tetsuya Osaka**, ECS Senior Vice-President; and **Roque Calvo**, ECS Executive Director.



The Society's oldest major award, the Edward Goodrich Acheson Award is given for distinguished contributions to any of the purposes or activities of ECS. The 2012 Acheson Medal was presented to **Dennis Hess** (left) by ECS President **Fernando Garzon** (right) at the PRiME 2012 meeting.



Established in 1989 for individual contributions and leadership in the achievement of science and technology in the area of electrochemistry and solid-state sciences and current active participation in ECS, the category of ECS Fellow is one of the Society's highest awards. ECS President **Fernando Garzon** (front row, fourth from left) welcomed the 2012 Class of ECS Fellows. Seated from left to right are: **Petr Vanýšek**, **Lili Deligianni**, **Trung Van Nguyen**, (Garzon), **R. Bruce Weisman**, and **Mark Verbrugge**. Standing from left to right are: **Meilin Liu**, **Daniel Schwartz**, **Andrew Gewirth**, **Stefan DeGendt**, **Junichi Murota**, **Esther Takeuchi**, **R. Winston Revie**, and **Sri R. Narayan**. Unable to attend the presentation ceremony was new Fellow **Jeffrey Dahn**.

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 Charles W. Tobias Young Investigator Award is given every other year. For 2012, two Tobias awards were presented.



Bryan Pivovar (left), one of the recipients, received congratulations from ECS President **Fernando Garzon** (right).



Bilge Yildiz (left), also a recipient, received her award from ECS President **Fernando Garzon** (right).



From 231 submissions to the **PRiME 2012 Student Poster Session**, a dedicated group of volunteer judges selected winners for the best posters. From left to right are: **Oana Leonte** (judge); **Yasushi Katayama** (judge); **Vimal Chaitanya** (co-organizer); **Mark Hulse** of Maccor (Maccor sponsored the awards); **Cheng Ai Li** and **Kwinam Han**, Hanyang University (First Place, Electrochemical Science & Technology); **Hideaki Matsuoka**, President of The Electrochemical Society of Japan; **Fernando Garzon**, ECS President; **Shigeta Yagyu**, Yamagata University (First Place, Solid-State Science & Technology); **Yoshinobu Adachi**, Kyoto University (Second Place, Electrochemical Science and Technology); **Takashi Hasegawa**, Kobe University (Second Place, Solid-State Science and Technology); **Venkat Subramanian** (co-organizer); and **Gautam Banerjee** (judge).



The Electrochemical Society

electrochemical energy summit 2012

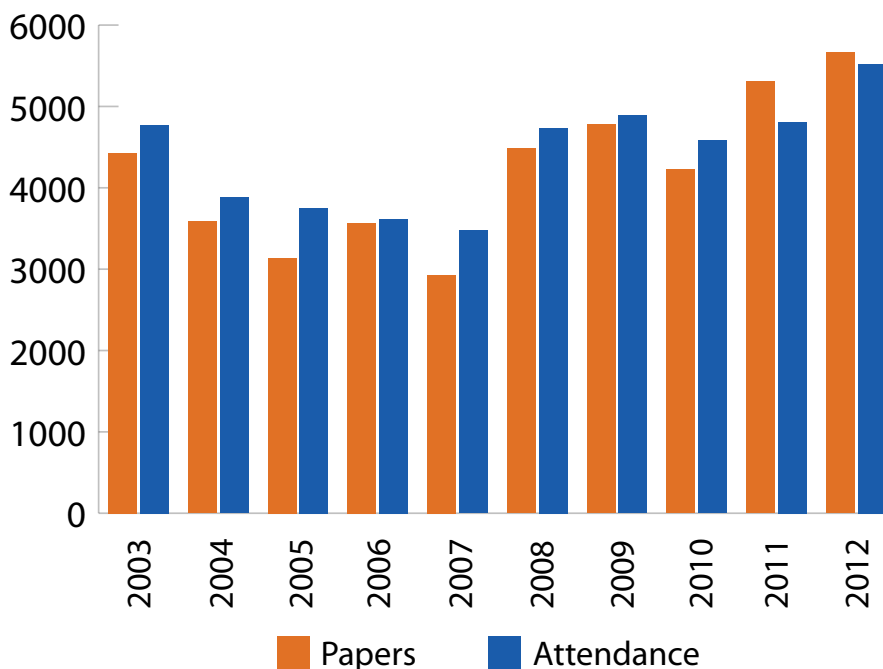
The **2012 Electrochemical Energy Summit (E2S)** held at PRiME focused on Grand Challenges for Energy Conversion and Large Scale Energy Storage. Gathered before E2S began were a number of the panelists and organizers. From left to right are: **Kee-Suk Nahm** (panelist), **Hirohide Tanaka** (presenter), **Xiao-Dong Zhou** (organizer), **Dan Rastler** (keynote speaker), **Bor Yann Liaw** (organizer), **Mark Glick** (panelist), **Fernando Garzon** (ECS President), **Brian Schatz** (Lt. Governor of Hawaii and keynote speaker), **Colton Ching** (panelist), **Eric McFarland** (panelist), **Jun Liu** (panelist), **Trung Van Nguyen** (organizer), and **Robert Savinell** (organizer).

All PRiME 2012 Meeting photos are by Eye of The Islands Photography, Kaneohe, HI.



In addition to the Society's own very successful meetings, ECS sponsors a number of outside conferences, including the very successful annual **China Semiconductor Technology International Conference (CSTIC)** meeting. The 2012 edition was held in Shanghai, China. ECS Executive Director **Roque Calvo** (far right) gathered with organizers and posters winners from CSTIC 2012.

ECS Meeting Growth



Technical Divisions

The **ECS Divisions** are an important part of what makes ECS such an interesting and vibrant organization. All Divisions are active throughout the year with planning symposia, selecting award recipients, choosing the winners of travel grants, and advancing the science through their ECS activities.

The **IE&EE Division** has a very successful **Outreach Program**, designed to bring awareness of electrochemical energy conversion devices to future generations. The program starts with a lecture explaining fuel cell and water electrolysis technologies, followed by a briefing on a fuel cell car competition. Students are divided into teams to participate in the car competition. The ECS organizers help the students assemble the cars and explain technical details of fuel cell

technology to the teams during the competition. Teams calculate the amount of hydrogen, produced by water electrolysis, required to fuel their cars to travel a fixed distance (15 feet). The teams then compete with each other to make their cars travel as close as possible to the assigned 15-foot distance. Award certificates are presented to the winning team (the team that comes closest to the assigned distance). The fuel cell model cars are donated to the school to promote similar educational activities in the future.

Many Divisions sponsor travel grants for keynote speakers and students to travel to ECS meetings. Some Divisions, through their support of symposia, also sponsors awards for the best paper or best poster.



Snowden International School student participants and ECS facilitators at the IE&EE Outreach Program in Boston, MA. In the front row, kneeling from left to right are: Paul Northrop (Washington University); Dennie Mah (Dupont Company); Gerardine Botte (Ohio University); Rui Zhang (Fuel Cell Energy); and Damilola Daramola, Vedasri Vedharathinam, Santosh Vijapur, and Wei Yan of Ohio University.



Kalani High School student participants and ECS facilitators at the IE&EE Outreach Program at PRiME 2012.



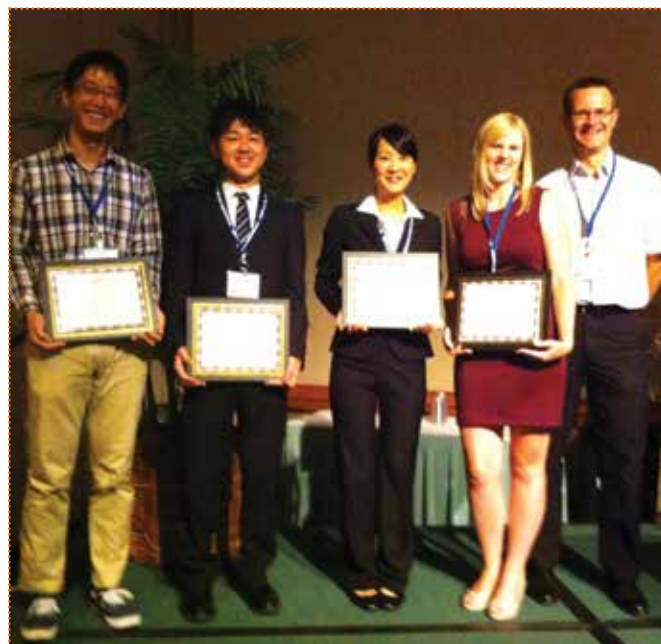
ECS Fullerenes, Nanotubes, and Carbon Nanostructures (FNCN) Division Chair Dirk Guldi (right) presented Stuart Corr (left) with a poster session award his paper, "Nanoparticles and Gd (III)-loaded Ultrashort Carbon Nanotubes for Applications in Non-invasive RF Hyperthermia Cancer Treatment."



At the Wednesday business luncheon in Seattle, FNCN Division members elected a new slate of officers for two-year terms. R. Bruce Weisman (right) took over the Chair duties from Dirk Guldi (left), who is the new Treasurer. Luis Echegoyen is the new Vice-Chair, and Slava Rotkin is the new Secretary.



FNCN Division Chair Dirk Guldi (left) presented Alexandra Krawicz (right) with a poster session award for Krawicz's paper, "Porphyrin-based CuAAC Coupled Layer-by-Layer Molecular Multilayers on Gold (III) Electrodes for Electro-optical Applications."



Four students received awards for best papers presented at the PEFC Symposium in Hawaii. From left to right are: Naoto Todoroki, First Place, for his paper, "Electrochemical Stability for Pt-Enriched Ni/Pt(111) Topmost Surface Prepared by Molecular Beam Epitaxy"; Takuya Tsukatsume, Second Place, for his paper, "Oxygen Reduction Reaction Activity and Durability of Electrocatalysts Supported on SnO₂"; Rie Teranishi, First Place, for her paper, "Analysis of Mechanism of Oxygen Reduction Reaction on Non-Noble Metals in Alkaline Solution by Scanning Electrochemical Microscopy"; and Melissa Vandiver, Second Place, for her paper, "Synthesis and Characterization of Perfluoro Quaternary Ammonium Ion Exchange Membranes for Fuel Cell Applications". Also pictured (far right) is Thomas Schmidt, one of the organizers of the symposium and member of the Energy Technology Division.

Membership

The Society's work goes on year-round, especially through the activities of its Sections and Student Chapters.

Getting involved with an **ECS Section** is an excellent networking opportunity for those new to the field or advanced in their careers. Sections also bring technical news and activities within reach of those who are not able to attend ECS meetings. Sections provide key programming, symposia, grants, activities, and a great opportunity

to get involved and participate with colleagues in furthering the science. Sections also work hard to participate overall in ECS affairs and to increase ECS membership and help create awareness for the science. The 22 ECS Sections are currently located in Asia, Europe, Latin America, the Middle East, North America, South America, and Southern Asia.



Organizer **Li Yan** and **Bill Santos** (middle) of the **ECS Canada Section** gathered with student poster and travel award winners at a recent meeting. (Photo by Mimoun Elboujdaini.)



Prize winners from a recent meeting of the **Detroit Section** (from right to left): **Rinchen Lama**, **Joanna Birbeck**, and **Junsi Gu**. (Photo courtesy of Kent Snyder.)



Graduate students **Ricardo Aguilar** (center) and **Amber Pizzo** (left) from Georgia Tech listen to **Ezra Kim** (right) describe his poster at a joint meeting of the **Georgia Section** and **Atlanta Student Chapter** at Georgia Tech.

ECS Membership Statistics

(as of October 1, 2012)

Table I. ECS Membership by Class

Category	2006	2007	2008	2009	2010	2011	2012	2012/2011 %Change
Active	5061	4974	5082	5129	4858	4874	4717	-3.2
Member Reps	73	89	116	98	126	137	158	15.3
Life	46	45	46	46	49	53	71	34.0
Emeritus	229	234	248	266	282	293	265	-9.6
Honorary	24	26	25	24	23	23	22	-4.3
Subtotal Active in Good Standing	5433	5368	5517	5563	5338	5380	5233	-2.7
Delinquent	1014	941	945	1130	1503	1115	1230	10.3
Total Active on Record	6447	6309	6462	6693	6841	6495	6463	-0.5
Students	864	1206	1428	1592	1466	1541	1442	-6.4
Delinquent	440	304	512	648	946	719	859	19.5
Total Students	1304	1510	1940	2240	2412	2260	2301	1.8
Total Individual Members	7751	7819	8402	8933	9253	8755	8764	0.1

Table II. ECS Membership by Sections

Section	2006	2007	2008	2009	2010	2011	2012	2012/2011 %Change
Arizona	132	118	150	116	127	109	98	-10.1
Brazilian	42	54	71	58	65	65	66	1.5
Canada	258	283	267	292	380	381	382	0.3
Chicago	166	208	184	188	159	182	180	-1.1
Chile							10	
China		62	78	123	101	81	86	6.2
Cleveland	114	114	138	134	125	123	124	0.8
Detroit	92	105	91	99	98	118	116	-1.7
Europe	1019	1043	1081	1266	1256	1105	1108	0.3
Georgia	154	172	168	151	165	171	179	4.7
India					58	58	59	1.7
Israel	28	25	23	35	31	39	39	0.0
Japan	757	756	789	920	791	771	775	0.5
Korea	175	187	212	246	262	243	253	4.1
Mexico		66	28	38	36	31	30	-3.2
National Capital	200	188	182	181	159	159	154	-3.1
New England	318	327	311	321	291	381	360	-5.5
Pittsburgh	89	98	98	87	87	87	80	-8.0
San Francisco	387	366	364	425	415	413	416	0.7
Taiwan		122	126	207	97	122	123	0.8
Texas	181	167	174	160	160	144	146	1.4
Twin Cities	91	91	87	85	86	74	76	2.7

Table III. ECS Membership by Division*

Division	2006	2007	2008	2009	2010	2011	2012	2012/2011 %Change
Battery	2511	1378	1450	1130	1575	1711	1740	1.7
Corrosion	1584	531	521	515	476	444	448	0.9
Dielectric Science & Technology	1278	377	375	377	301	306	281	-8.2
Electrodeposition	1727	509	509	500	471	474	453	-4.4
Electronics & Photonics	1812	815	759	821	671	661	582	-12.0
Energy Technology	2434	929	1060	1145	1196	1239	1175	-5.2
Fullerenes, Nanotubes and Carbon Nanostructures	713	194	205	212	176	155	175	12.9
High Temperature Materials	991	205	196	209	203	212	209	-1.4
Industrial Electrochemistry & Electrochemical Engr	1343	277	297	301	303	313	309	-1.3
Luminescence & Display Materials	701	110	120	122	102	100	99	-1.0
Organic & Biological Electrochemistry	1026	188	215	222	188	175	176	0.6
Physical & Analytical Electrochemistry	2426	643	664	652	596	597	561	-6.0
Sensor	1271	242	247	276	222	242	223	-7.9

*From 2007 Division statistics include only primary interests. Previous years' include primary and secondary interests.

Table IV. ECS Membership by Occupation

Occupation	2006	2007	2008	2009	2010	2011	2012	2012/2011 %Change
Academic	2244	2274	2446	2558	2467	2410	2370	-2.3
Industry	2412	2334	2456	2160	2034	2197	2135	8.0
Government	399	388	431	436	391	394	403	0.8
Retired		69	77	119	112	112	112	0.0



As part of the activities of the **ECS Chile Section**, **Fritz Scholz**, from the University of Greifswald, Germany, presented a course on “Electrochemistry of Immobilized Microparticles and Immobilized Liquid Droplets.” The course was given at the University of Santiago de Chile (USACH) to an audience of 25 people comprised of mostly PhD students and post docs from USACH and University of Chile.



Symposium participants at a **Chile Section** Symposium of Electrochemistry held in Villa Alemana, Chile.



The **Israel Section** held its annual meeting "Israelectrochemistry 2012" at Tel Aviv University. The meeting was organized by **Diana Golodnitsky** and was dedicated to **Emanuel Peled** (pictured) on the occasion of his 70th birthday.



Pictured at a recent committee meeting of the **ECS Japan Section** (seated from left to right) are: **Takashi Ito** (Tokyo Institute of Technology, Chair of the ECS Japan Section), **Tetsuya Osaka** (Waseda University, ECS Second Vice-President), **Toshio Fuchigami** (Tokyo Institute of Technology, Former Chair of the ECS Japan Section). In the back row (from left to right) are: **Shin-Ichiro Kuroki** (Tohoku University, Section Secretary and Treasurer of the ECS Japan Section), and **Takayuki Homma** (Waseda University, Former Section Secretary of the ECS Japan Section).



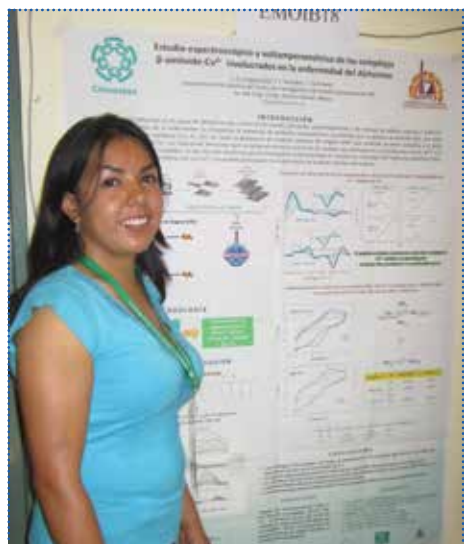
The **ECS Japan Section** aggressively cooperates with international conferences and workshops held in Japan. At the 2012 International Conference on Solid State Devices and Materials were (from left to right): **Kazuo Kyuma**, Mitsubishi Electric Corp., SSDM12 Organizing Committee Chair, and **Takashi Ito**, Chair of the ECS Japan Section.



Young-Woo Lee (left) received the 6th Student Award of the **ECS Korea Section**. Mr. Lee is a PhD candidate at the Soongsil University of the Department of Chemical Engineering, Seoul, Korea.



The XXVII Meeting of the Mexican Electrochemical Society (SMEQ) and the 5th Meeting of the ECS Mexico Section was held in Toluca, Mexico. From left to right: **Norberto Casillas**, President of SMEQ; **Jose Bisang** (Argentina); **Carlos Barrera-Díaz**, President of the Congress (UAEM); **Manuel A. Rodrigo-Rodrigo** (Spain); **Guadalupe O. Santamaría-González**, Faculty of Chemistry Chair (UAEM); **R. Daniel Little** (USA); **Paul A. Kohl**, ECS Second Vice-President, (USA); **Carlos Cabrera** (Puerto Rico); and **Bernardo Frontana-Urbe**, President of the Congress (UNAM).



Lidia G. Trujano Ortiz, PhD student from the Center of Research and Advanced Studies of the National Polytechnic Institute (CINVESTAV-IPN), in front of her poster, which she received the ECS-sponsored Best Poster Award at the Congress of the SMEQ/5th Meeting of the ECS Mexico Section.

ECS Sections

Asia/Japan

China
Japan
Korea
Taiwan

Europe

Europe

Latin America

Brazil
Chile
Mexico

Middle East

Israel

North America

Arizona
Canada
Chicago
Cleveland
Detroit
Georgia
National Capital
New England
Pittsburgh
San Francisco
Texas
Twin Cities

Southern Asia

India



Prabhakar Singh presented a lecture on SOFC to the ECS New England Section.



At a recent meeting of the ECS San Francisco Section were (from left to right): Xiongwu Kang, Matthew McDowell, Allison Engstrom, Robert Kostecki, and Thomas Dinan. (Photo by Simon Lux, the Section 2nd Vice-Chair.)

ECS has a rapidly growing number of **Student Chapters** that give students an opportunity to learn about the specifics of electrochemical and solid-state science and technology, to have a venue for meeting fellow students, and to receive recognition for their organized scholarly activities and community services. The 32 ECS Student Chapters are located at academic institutions throughout the world. Students can meet and network with fellow students, participate in a wide range of programs and activities, receive recognition for scholarly activities, and develop career preparation skills.

The Society welcomed **five new Student Chapters** in 2012 including the Colorado School of Mines Student Chapter, Drexel University Student Chapter, The California State University – Fullerton Division Student Chapter, Indiana University Student Chapter, and University of Texas at Dallas Student Chapter. Student Chapters are officially approved and recognized by the Board of Directors at ECS biannual meetings.

ECS Student Chapters

- **Atlanta Student Chapter at Georgia Tech**, founded 2008, Peter J. Hesketh, Faculty Advisor, peter.hesketh@me.gatech.edu
- **Auburn University Student Chapter**, founded 2007, Jeffrey Fergus, Faculty Advisor, jwfergus@eng.auburn.edu
- **Boston Student Chapter** (Harvard University, MIT, Northeastern University), founded 2009, Eugene Smotkin, Faculty Advisor, e.smotkin@neu.edu
- **Technical University Brno Student Chapter**, founded 2006, Jiri Vondrak, Faculty Advisor, vondrakj@iic.cas.cz
- **Calgary Student Chapter**, founded 2011, Viola Birss, Faculty Advisor, birss@ucalgary.ca
- **University of California - Berkeley Student Chapter**, founded 2006, John Newman, Faculty Advisor, newman@newman.cchem.berkeley.edu
- **The California State University - Fullerton Division Student Chapter**, founded 2012, John Haan, Faculty Advisor, jhaan2@uiuc.edu
- **University of California - Riverside Student Chapter**, founded 2011, Alexander Balandin, Faculty Advisor, balandin@ee.ucr.edu
- **University of Central Florida Student Chapter**, founded 2000, Kalpathy Sundaram, Faculty Advisor, sundaram@mail.ucf.edu
- **Central Illinois Student Chapter**, founded 2008, Andrzej Wieckowski, Faculty Advisor, andrzej@scs.uiuc.edu
- **University of Cincinnati Student Chapter**, founded 2007, Marc Cahay, Faculty Advisor, marc.cahay@uc.edu

(continued)



Hany El-Sayed, President of the ECS Calgary Student Chapter, encouraged students to become members of the newly formed Chapter.

ECS Student Chapters

(continued)

- **ECS Cleveland Section and Ernest B. Yeager Center for Electrochemical Sciences Joint Student Chapter**, founded 2005, James D. Burgess, Faculty Advisor, jdb22@po.cwru.edu
- **Colorado School of Mines Student Chapter**, founded 2012, Andrew Herring, Faculty Advisor, aherring@mines.edu
- **Drexel University Student Chapter**, founded 2012, Yury Gogotsi, Faculty Advisor, gogotsi@drexel.edu
- **Florida International University Student Chapter**, founded 2009, Chunlei Wang, Faculty Advisor, wangc@fiu.edu
- **University of Florida Student Chapter**, founded 2005, Juan Nino, Faculty Advisor, jnino@mse.ufl.edu
- **Grand Valley State University Student Chapter**, founded 2008, Cory M. DiCarlo, Faculty Advisor, dicarlo@gvsu.edu
- **Indiana University Student Chapter**, founded 2012, Lane Baker, lanbaker@indiana.edu and Dennis Peters, Faculty Advisors, peters@indiana.edu
- **Kerala, India Student Chapter at CUSAT**, founded 2008, M. K. Jayaraj, Faculty Advisor, mkj@cusat.ac.in
- **Lahore, Pakistan Student Chapter**, founded 2008, Inam Ul Haque, Faculty Advisor, inamul.haque@gmail.com
- **University of Maryland Student Chapter**, founded 2011, Eric Wachsmann, Faculty Advisor, ewach@umd.edu
- **Montreal Student Chapter**, founded 2010, Steen B. Schougaard, Faculty Advisor, schougaard.steen@uqam.ca
- **New York Capital Region Student Chapter**, founded 2006, Dan Lewis, Faculty Advisor, lewisd2@rpi.edu
- **The Ohio State University Student Chapter**, founded 2006, Anne Co, Faculty Advisor, co@chemistry.ohio-state.edu
- **Ohio University Student Chapter**, founded 2011, Gerardine Botte, Faculty Advisor, botte@ohio.edu
- **Research Triangle Student Chapter**, founded 2009, Wesley Henderson, Faculty Advisor, whender@ncsu.edu
- **South Brazilian Student Chapter**, Univ. Fed. do Rio Grande do Sul, founded 2010, Luis Frederico P. Dick, Faculty Advisor, lfdick@ufrgs.br
- **University of South Carolina Student Chapter**, founded 2010, Xiao-dong Zhou, Faculty Advisor, xiao-dong.zhou@sc.edu
- **Tel Aviv University Student Chapter**, founded 2009, Eliezer Gileadi (gileadi@post.tau.ac.il) and Yosi Shacham-Diamand (yosish@post.tau.ac.il), Faculty Advisors
- **University of Texas at Austin Student Chapter**, founded 2006, Ram Manthiram, Faculty Advisor, rmanth@mail.utexas.edu
- **Tyndall National Institute Student Chapter**, founded 2010, Alan O'Riordan, Faculty Advisor, alan.oriordan@tyndall.ie
- **University of Virginia Student Chapter**, founded 2006, Rob Kelly, Faculty Advisor, rgk6y@virginia.edu



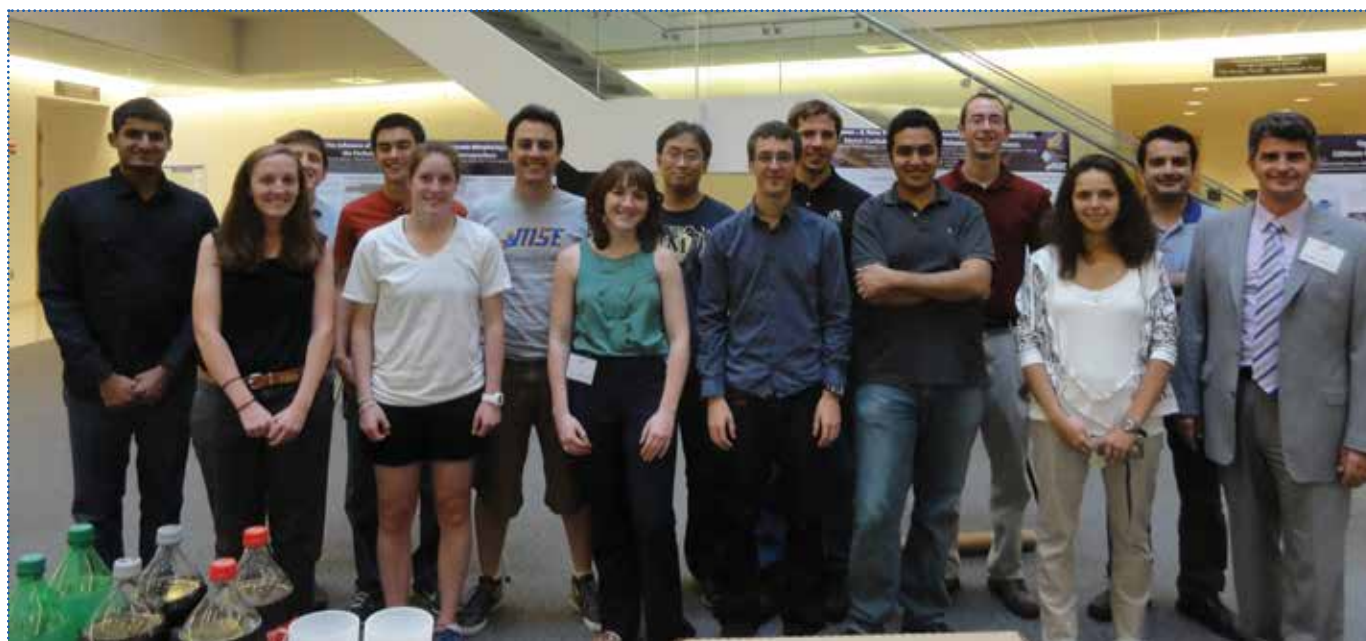
The ECS Cleveland Section's joint Yeager Center for Electrochemical Sciences—ECS Cleveland Student Chapter announced participation in science education community outreach. The overall project is multidisciplinary and is led by Christine Korhnak and D'Edra Thompson, the Education Manager and Education Specialist, respectively, with the Cleveland Metroparks Zoo. The outreach experience is aimed at Northeast Ohio high school students and is centered on identification of contaminants in local waters and the ecological consequences of the contamination. ECS Student Chapter co-chairs met with the Cleveland Metroparks Zoo's "Zoo Crew" to plan the Water Analysis Project.



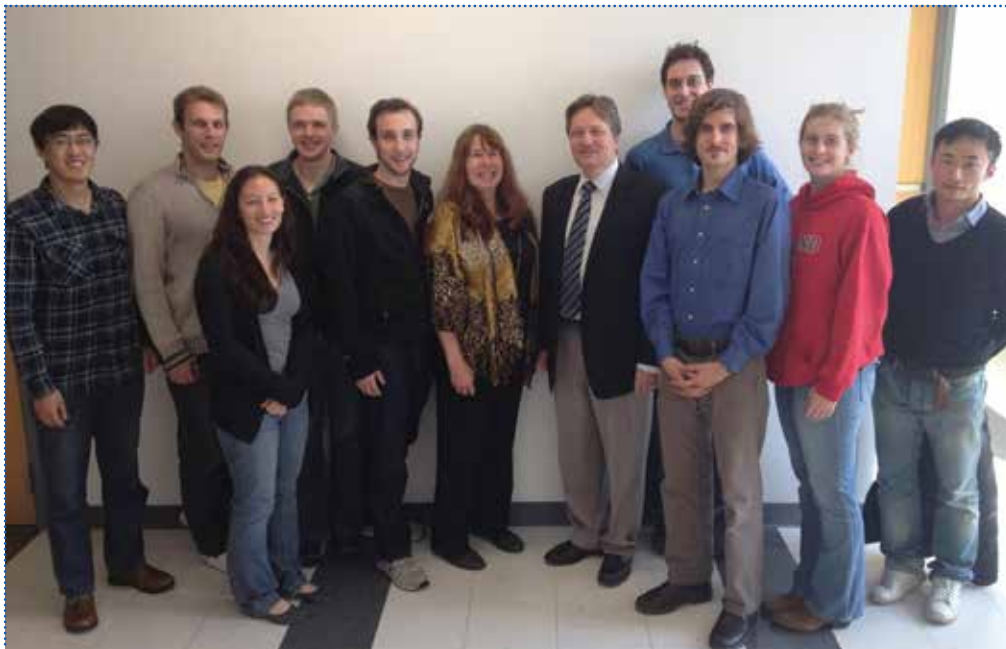
ECS UT Austin Student Chapter officers and student volunteers at Explore UT 2012. Explore UT is the largest open house in Texas hosting different events and activities at The University of Texas at Austin (UT Austin) that cater to various age groups. The Chapter participated for the first time in an outreach program for school children by hosting a booth and organizing fun and interactive activities. The Student Chapter event was entitled "Clean Energy and More—Electrochemistry All Around Us."



Students of the **ECS Boston Student Chapter** at their first meeting at Northeastern University, Boston, MA. The open atmosphere of the meeting provided students with a great opportunity to interact, network, and showcase their areas of expertise.



The **ECS Drexel University Student Chapter** held a university-wide poster session that communicated the importance of electrochemistry to both a technical and non-technical audience, by explaining how electrochemical research can make a dramatic impact in our society, either by making better batteries and solar cells, solving corrosion problems, or synthesizing new biological materials using electrochemical techniques. Pictured here are Chapter members. In the front row from the left are: **Kelsey Hatzell**, **Katherine Van Aken**, **Kristy Jost**, **Yohan Dall'Agnese**, **Michael Naguib**, **Maria Lukatskaya**, and **Yury Gogotsi** (Faculty Advisor). In the back row, from the left are: **Arvind Kalidindi**, **Jerome Robinson**, **Daniel Stenger**, **Carlos R. Perez**, **Min Heon**, **Boris Dyatkin**, **Christopher Dennison**, and **Majid Beidaghi**.



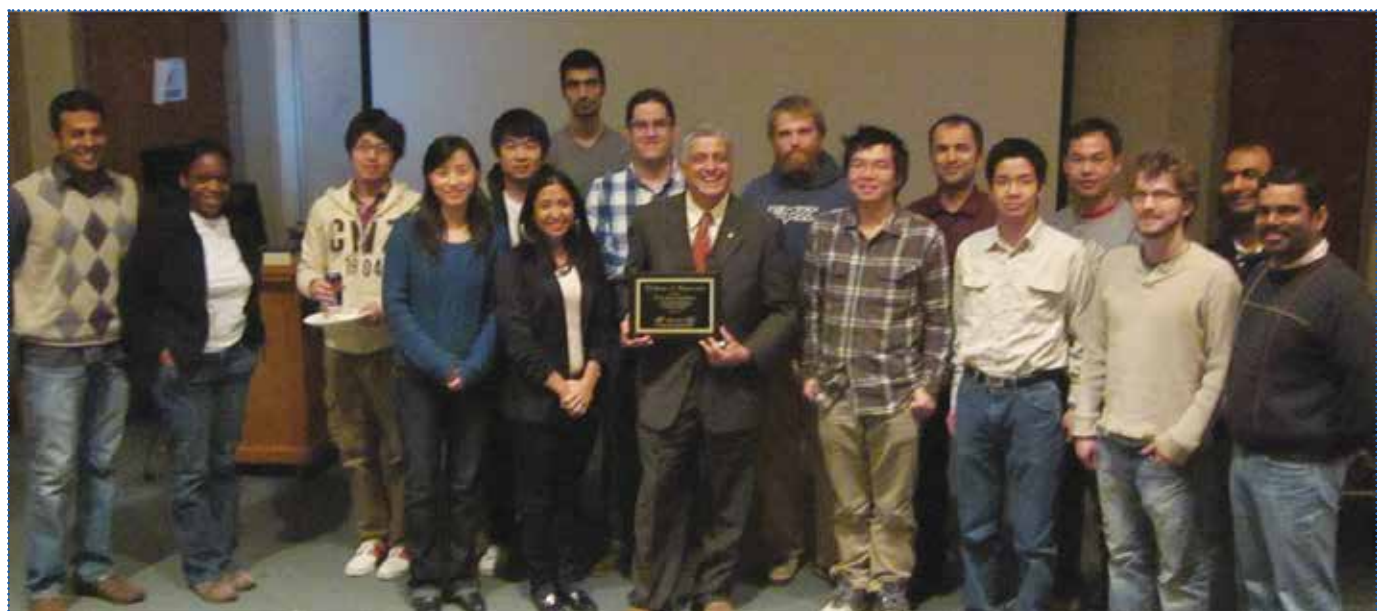
At a recent meeting of the new *ECS University of Maryland Student Chapter* were (from left to right): **Ke-Ji Pan**, **Greg Hitz**, **Jennie Moton**, **William Gibbons**, **Aaron Fisher**, **Cynthia Lundgren**, **Eric Wachsman** (Faculty Advisor), **Alex Kozen**, **Colin Gore**, **Ashley Lidie**, and **Yi-Lin Huang**.



ECS University of Maryland Student Chapter members discussed strategies for success in academia with **Donald Sadoway**, a Time 100 professor notable for his molten metal battery breakthroughs.



The 2nd Symposium of the ECS Montréal Student Chapter attracted more than sixty students and staff from Montréal and Ottawa universities and research centers. **Rolf Wüthrich** presented a talk entitled, “Lighting the Spark in Electrochemistry,” which provided a fascinating introduction to the applications of electrochemical discharge, while covering the latest results of this research area.



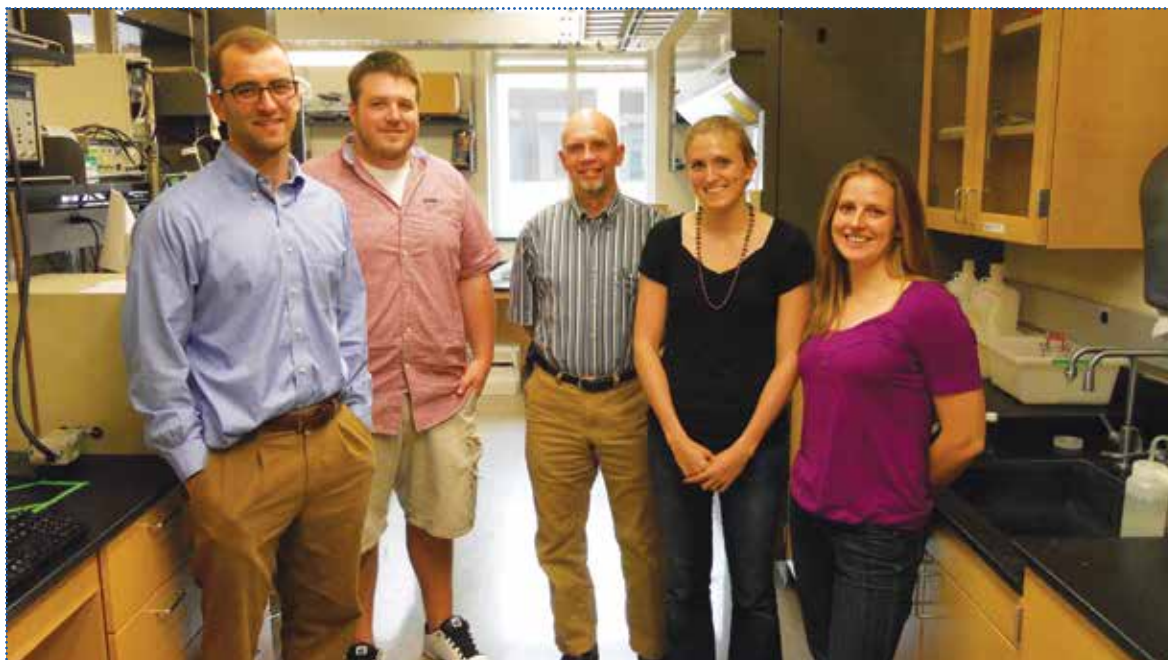
At a recent meeting of the ECS Ohio University Student Chapter were (from left to right): **Ramasamy Palaniappan, Shanique Grant, Lingchong Mai, Ping Yu, Wei Yan, Gerardine Botte** (Faculty Advisor), **Aria Kahyarian, Luis Diaz, Krishnan Rajeshwar** (guest speaker), **Arthur Gildea, Fei Lu, Ali Estejab, Yu Ding, Xiaoyong Xia, Alex Miller, Santosh Vijapur, and Madhivanan Muthuvel**.



ECS University of Texas at Austin Student Chapter members and guests at a recent meeting. From left to right: Preethi Mathew, Katherine Rose Stroukoff, Peter Olapade, Netzahualcoyotl Arroyo Curras, Karim Zaghbi (guest speaker), Katharine L. Harrison, Karen Scida, and Arumugam Manthiram (Faculty Advisor).



Richard Compton with Alan O'Riordan (Faculty Advisor) and members of the ECS Tyndall National Institute Student Chapter after Dr. Compton's inspiring seminar on "Electrochemistry at the Nanoscale," in Cork, Ireland.



In addition to holding seminars relevant to the science, the **ECS University of Virginia Student Chapter** also holds membership drives. The Chapter was successful in introducing and familiarizing the incoming graduate student members to the resources of the Society, and continues to provide current members with important social and intellectual experiences. Chapter members pictured here are (from left to right): **Samuel Madden** (President), **Andrew King** (Vice-President), **Rob Kelly** (Faculty Adviser), **Mara Shedd** (Treasurer), and **Cortney Crane** (Secretary).

The ECS “family” also includes institutional members, who are busy moving the science forward in exciting and innovative ways. ECS Institutional Membership provides a direct relationship between ECS and organizations involved in electrochemical science and technology. Institutional Members help ECS to advance the Society’s purpose and objectives. In 2012, six organizations were

recognized with the Leadership Circle Award for continuous service to the ECS including: Bio-Logic USA/ Bio-Logic SAS, Gamry Instruments, Rockwood Lithium (formerly Chemetall GmbH), ENEOS CELLTECH Co., Ltd., Fortu Research GmbH, and OM Group, Inc. ECS had 77 Institutional Members at the end of 2012.



The **Leadership Circle Awards** are one way that ECS acknowledges and thanks its organizational members for their loyal support of ECS. In Seattle, ECS President **Esther Takeuchi** (far left) presented five-year awards to the following (starting with the second from left): **Bill Eggers** of Bio-Logic USA/ Bio-Logic SAS; **David Loveday** of Gamry Instruments, and **Vera Nickel** of Rockwood Lithium (formerly Chemetall GmbH).

Other Programs



Redcat is an online community created by and for everyone working in electrochemistry and solid state science and technology. Launched by ECS in 2012, the site is unique—it's a research tool *and* a networking site. The idea for Redcat came out of discussions aimed at furthering the ECS mission, which is to encourage research, discussion, critical assessment, and dissemination of knowledge in electrochemical and solid state science and technology. Because the ECS mission is to do all this for the entire electrochemistry and solid state community, Redcat is free and open to anyone.

Redcat is a one-stop connection to dynamic people, breaking research and news, and important events. Redcat's enormous and powerful database helps users discover trending topics, read new articles from highly-cited journals, and find recommendations for areas of study. Legacy research can be found side-by-side with current studies that are making news around the world. Users can collect and save searches and results for later reference and use.

Redcat helps bring community members with similar interests together to share ideas and develop new research streams. Many groups have already been started in Redcat, including groups for ECS Divisions, Sections, and Student Chapters; groups on technical topics; and more.

An event haven for scientists and engineers, educators, and students, Redcat also has lists of conferences and other events that are occurring in electrochemistry and solid state science and technology around the world.

The Redcat Jobs pages enables users to look for a job or be discovered themselves by organizations with positions to fill.

The name Redcat comes from "reduction always occurs at the cathode." Remember that handy mnemonic? It made things a little easier and allowed you to concentrate on the important next steps in your work. Redcat makes it easier for everyone in electrochemistry and solid state science and technology. Redcat is here to do that for you.



The ECS Career Fair at PRiME 2012.

The **ECS Career Fair** was a new offering in 2012, providing a great way for organizations and individuals to connect with each other. Participating organizations have the opportunity to look for potential employees at every level of experience—from veterans in the science to newcomers entering research, development, and academia. With meeting attendance in the range of 2,000 to 3,000+ people, the ECS Career Fair is one of the most effective ways to recruit qualified candidates.

The first-ever Career Fair was a highlight of the ECS Seattle meeting, and the second soon followed at the PRiME 2012 meeting in Hawaii. All meeting attendees had the opportunity to speak to participating company recruiters, provide their résumés for available employment opportunities, and be interviewed for a position. A job board was available for job and résumé postings; and Career Fair participants also could take advantage of an initial complimentary job posting on the Redcat Jobs Board.

ECS is itself a member of a number of organizations that support the scientific community, including the **American Association for the Advancement of Science (AAAS)**, the **Chemical Heritage Foundation (CHF)**, the **National Inventors Hall of Fame**, and the **Federation of Materials Societies (FMS)**.

AAAS is a nonprofit professional society dedicated to the advancement of scientific and technological excellence across all disciplines and to the public's understanding of science and technology through its affiliate member societies.

CHF is a nonprofit organization whose affiliate member societies seek to strengthen the public understanding of chemical sciences and technologies; increase the flow of the best students into the chemical sciences and chemical process industries; and instill in chemical scientists and engineers a greater pride in their heritage and their contributions to society. The CHF maintains ECS's permanent archives and several oral histories on significant ECS members.

The National Inventors Hall of Fame honors the women and men responsible for the great technological advances that make human, social, and economic progress possible. Each year, the Selection Committee of the National Inventors Hall of Fame Foundation selects inventors for induction. These are selected from a field of people nominated by peers and the public. The Selection Committee includes representatives from the leading national scientific and technical organizations, including ECS.



Subra Suresh (left) received the FMS National Materials Advancement Award from Petr Vanýsek, FMS President. Dr. Suresh became the 13th director of the National Science Foundation in October 2010.

FMS is an umbrella organization whose member societies and affiliates represent the professional societies, universities, and National Research Council organizations involved with materials science, engineering, and technology. FMS constituent societies have more than 700,000 individual members.



Northern Illinois University Students visited with award recipient Representative Randy Hultgren (R-IL) during the Congressional Visit Days. From left: Michelle Nelson, Randy Hultgren, Lauren Grabstanowicz, and Megan Murtaugh.

While ECS is not a lobbying organization, it does seek to educate those who make important decisions about the future of scientific research, including funding for it. Constituent visits on Capitol Hill are part of legislative process. Those most effective are organized visits emphasizing certain issues that the Senators and members of Congress should consider. Such visits have become a regular program called **Congressional Visit Days**. Because these visits are planned ahead and announced, congressional staff have opportunity to free up their schedules and focus more closely on the message. The large number of visitors, coming with similar theme, increases the impact of the message. ECS participated this year in the two-day event organized by the Science-Engineering-Technology Group, an information network comprised of professional, scientific, and engineering societies; higher education associations; institutions of higher learning; companies; and trade associations. ECS was involved in this event through its affiliation with the Federation of Materials Societies, and **Petr Vanýsek**, the current FMS President.



Sometimes ECS is the one that gets the boost in efforts to advance the science, and 2012 provided such a lift. In 2012, ECS was awarded a **Google Grant**, comparable to \$120,000 worth of online advertising, through the **Google AdWords** program. The grant automatically renews each year. ECS is using the award to encourage interest in many aspects of the Society—such as the Society’s Summer Fellowship programs, travel grants, career development programs, and student awards, among many other efforts—as well as introduce Redcat (redcatresearch.org) to our community.

Google Grants is a part of the Google for Nonprofits initiative. Launched in 2003, Google Grants now empowers over 6,000 organizations to achieve their goals by helping them promote their websites. The program helps nonprofits use Google AdWords to reach those who are searching for information relevant to their organization and fields of study. Organizations that receive a Google Grant are awarded an in-kind online advertising stipend that can be used in a variety of ways, including general outreach, fundraising activities, and recruitment of volunteers.

This Google grant, the Society’s new initiatives, and the ongoing publications, meetings, and other programs help ECS do what it does best—advance theory and practice at the forefront of electrochemical and solid state science and technology and allied subjects; encourage research, discussion, critical assessment, and dissemination of knowledge in these fields; and foster the training and education of scientists and engineers—all in the service of our mission to promote science and technology in the public interest.



Finance

We are pleased to present the audited financial reports of ECS for the year ending December 31, 2012. These reports indicate that we met the Society's financial objectives for the year, which will assist in the Society's mission to advance solid state and electrochemical science, and that our financial health continues to be strong.

The ECS annual financial goal is to generate a surplus from operations and investments that is equivalent to ten percent over total expenses. That target was exceeded for the year ended December 31, 2012, as net assets increased by \$870,108. The surplus was a result of greater than anticipated revenues of \$7.2 million, which was largely due to record attendance at the meetings, as well as greater than anticipated returns from the investment portfolio.

The total operating expenses increased to \$6.4 million primarily due to increased Society meetings and exhibits costs related to the venue and record attendance at the PRiME Meeting in Hawaii. A change in our digital library platform provider led to significant savings, and should provide some containment of publications costs over the next few years. The general and administrative costs were slightly higher due to increases in staff, benefit costs, IT, software and other support costs. We anticipate further increases in the staff size to manage the growth in meetings, publications, and technological requirements driving the Society's future.

The Society's *Statement of Financial Position* reflects growth in assets to \$15.7 million of which 55% are either custodial or endowment funds. Growth in these funds is important because there will be pressure to continue generating financial support through membership and subscription revenues. Therefore, our broader financial goal is to avoid the use of the endowment funds to cover operating expenses, enabling the funds to maintain future growth. This is the main reason we have reinitiated fundraising activities through the new ECS Development Subcommittee.

Overall, 2012 was a very good year for ECS from a financial perspective. Most of our programs generated surplus revenues and we have taken steps to create greater efficiencies, which materialized into cost savings this past year. We do anticipate that continued large investments will be required to fund the technology necessary to advance the science, but the Society's current financial strength will aid in these investments.

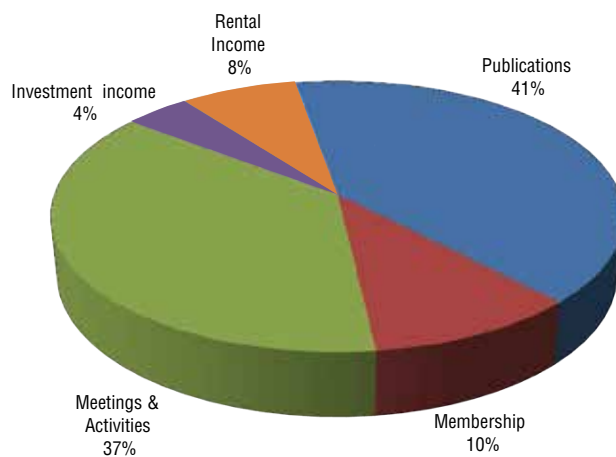


Christina Bock
Treasurer

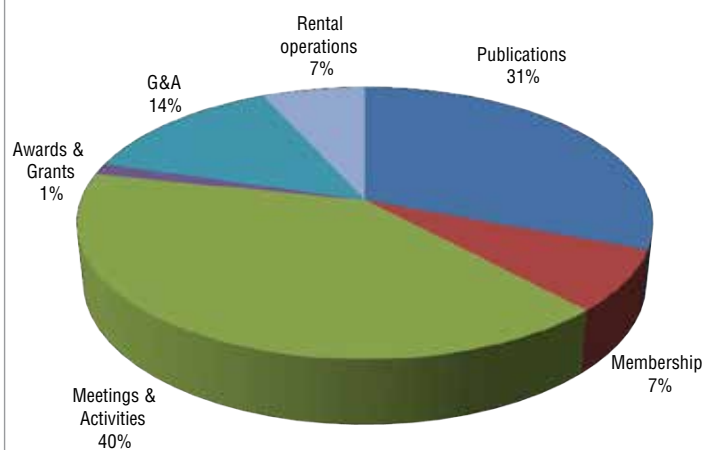


Paul Grote
Director of Finance

ECS Revenue Percentages - 2012



ECS Expense Percentages - 2012



The Electrochemical Society is a nonprofit international association of scientists and engineers chartered as a tax exempt organization under Section 501(c)(3) of the United States Internal Revenue Code. The Board of Directors engages the services of an independent auditor to assure that the Society maintains an effective system of financial management, and continues to operate under its nonprofit charter. The Board of Directors received an unqualified or clean opinion from their independent auditors, *WithumSmith+Brown* for the fiscal year ending December 31, 2012.

Financial Summary

Consolidated Statement of Financial Position *(For the years ended December 31, 2012 and 2011)*

Assets	2012	2011
Cash and cash equivalents	\$ 1,255,149	\$ 918,461
Accounts receivable, net	148,985	44,464
Unconditional promises to give, net	17,575	-
Prepaid expenses, deposits, and other assets	130,709	133,278
Investments in marketable securities	8,586,364	7,473,725
Custodial account investments	717,910	721,568
Deferred rent	81,005	68,656
Investments in real estate:		
Land	1,603,427	1,603,427
Buildings, less accumulated depreciation of \$432,847	2,886,232	2,965,735
Intangible assets	243,873	225,747
Total assets	15,671,229	14,155,061

Liabilities and Net Assets

<i>Liabilities</i>		
Accounts payable and accrued expenses	\$ 314,030	\$ 200,378
Deferred revenue	1,290,501	832,572
Custodial account liability	717,910	721,568
Security deposits	30,987	33,487
Deferred compensation	115,028	34,391
<i>Net assets</i>		
Unrestricted	11,950,633	11,092,450
Temporarily restricted	410,627	407,247
Permanently restricted	841,513	832,968
Total net assets	13,202,773	12,332,665
Total liabilities and net assets	15,671,229	14,155,061

Consolidated Statement of Changes in Net Assets *(For the years ended December 31, 2012 and 2011)*

Revenues		
Publications	\$ 2,792,216	\$ 2,954,166
Membership	712,278	654,036
Society meetings and activities	2,554,820	2,271,796
Interest and dividend income	268,591	302,242
Contributions and grants	23,696	243,345
Rental income	512,521	482,192
Other revenues	15,564	40,346
	6,879,686	6,948,123
Expenses		
<i>Program services</i>		
Publications	\$ 1,955,617	\$ 2,100,260
Membership	461,169	323,710
Society meetings and activities	2,555,910	1,816,715
Awards, fellowships, and grants	86,582	134,075
	5,059,278	4,374,760
<i>Supporting services</i>		
General and administrative	865,341	747,048
Fundraising	-	685
Rental operations	431,377	471,915
	1,296,718	1,219,648
Increase in net assets from operations	\$523,690	1,353,715
Net change in fair value of investments	346,418	(254,077)
Other non-operation revenue	-	-
Change in net assets	870,108	1,099,638
Net assets, beginning of year	12,332,665	11,233,027
Net assets, end of year	13,202,773	12,332,665

These financial statements are a condensed version of the audited statements of ECS for the year ending December 31, 2012. ECS will be pleased to provide complete copies along with all footnotes and the unqualified report of our auditors upon request.

Notes to Financial Statements

1. Summary of Significant Accounting Policies

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

The consolidated financial statements have been prepared to focus on The Electrochemical Society, and Subsidiary (the Society) as a whole, and to present balances and transactions according to the existence or absence of donor-imposed restrictions. Accordingly, net assets and changes therein are classified as follows: Unrestricted net assets – net assets not subject to donor-imposed stipulations; Temporarily restricted net assets – net assets subject to donor-imposed stipulations that will be met by actions of the Society and/or by the passage of time; Permanently restricted net assets (endowment funds) – net assets subject to donor-imposed stipulations that they be maintained permanently by the Society.

2. Income Tax Status and Income Taxes

ECS and its Divisions, Groups, and Sections qualify as a tax-exempt organization described under Section 501(c)(3) of the Internal Revenue Code and all of its income, except income generated through the advertising included in its publications, is exempt from Federal income taxes.

As a single-member limited liability company, the LLC is treated as a *disregarded entity* for income tax purposes and, as such, its financial activity is reported in conjunction with the federal income tax filings of ECS. The Society has adopted the accounting pronouncement that provides guidance on uncertain tax positions. The Society has no unrecognized tax benefits at December 31, 2012.

3. Investments

Investments in equities and fixed income instruments are reported at fair market value, and investment in real estate is reported 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. Cost, market value and unrealized appreciation (depreciation) at December 31, 2012 are summarized as follows:

	Cost	Market Value	Unrealized Gain/(Loss)
Money Market Funds	\$ 3,527	\$ 3,527	\$ --
Stocks and Mutual Funds	5,185,619	5,486,276	300,657
Certificate of Deposit	515,605	515,605	--
Corporate and U.S. Bonds	2,416,257	2,731,273	315,016
Real Estate	5,007,611	5,007,611	--
Real Estate Trust	550,000	567,593	17,593
Total	\$13,678,619	\$14,311,885	\$ 633,266

4. Endowment Funds

The Society's endowment funds consist of several funds established to fund awards, as well as an educational endowment fund, publications endowment fund, and a general endowment fund. The endowment funds include both donor-restricted funds and funds designated by the Board of Directors to function as endowments. As required by generally accepted accounting principles (GAAP), net assets associated with endowment funds are classified based on the existence or absence of donor-imposed restrictions.

The Society's policy requires the preservation of the fair value of the original gift as of the gift date of the donor-restricted endowment funds absent explicit donor stipulations to the contrary. As a result, the Society classifies as permanently restricted net assets the original value of gifts donated to the permanent endowment and the original value of subsequent gifts to the permanent endowment. The remaining portion of the donor-restricted endowment fund that is not classified in permanently restricted net assets is classified as temporarily restricted net assets until those amounts are appropriated for expenditure by the Society.

5. ECS Holdings, LLC

ECS Holdings LLC was chartered in 1998 to manage the real estate assets of the Society. Current real estate holdings include five buildings at Howe Commons in Pennington, NJ valued at a cost of \$5,007,611. The Society occupies one of the buildings and the other four are classified as an investment. ECS Holdings LLC leases office space in these four buildings to various tenants under operating leases arrangements expiring through 2019. Rental income under the aforementioned leases totaled \$512,521 (net of Society's rentals of \$78,115) for the year ended December 31, 2012.

6. Report of the ECS Audit Committee

The ECS Audit Committee provides oversight of 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 Committee discussed the financial statements in the annual report with management, including a discussion of 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 Audit Committee in 2012 were Peter Fedkiw (Chair), John Susko, Petr Vanýsek, Paul Natishan, and Lloyd George. The Committee met 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 these discussions the Audit Committee has recommended for acceptance to the Board of Directors the audited financial statements for the year ended December 31, 2012.

Board of Directors

(as of October 2012)

Christina Bock, *Treasurer*
 Gerardine Botte, *Chair, Industrial Electrochemistry & Electrochemical Engineering Division*
 James Burgess, *Chair, Organic & Biological Electrochemistry Division*
 Roque Calvo, *Executive Director*
 Michael Carter, *Chair, Sensor Division*
 Pablo Chang, *Chair, Electronics & Photonics Division*
 John Collins, *Chair, Luminescence and Display Materials Division*
 Hariklia Deligianni, *Secretary*
 Jeffrey Fergus, *Chair, High Temperature Materials Division*

Shinji Fujimoto, *Chair, Corrosion Division*
 Fernando Garzon, *President and Board Chair*
 Lloyd George, *Nonprofit Financial Professional*
 Paul Kohl, *2nd Vice-President*
 Oano Leonte, *Chair, Dielectric Science & Technology Division*
 Bor Yann Liaw, *Chair, Battery Division*
 Shelley Minteer, *Chair, Physical & Analytical Electrochemistry Division*
 Tetsuya Osaka, *Sr. Vice-President*
 Daniel Scherson, *3rd Vice-President*
 Jean St-Pierre, *Chair, Energy Technology Division*
 Esther Takeuchi, *Past President*
 R. Bruce Weisman, *Chair, Fullerenes, Nanotubes, & Carbon Nanostructures Division*
 Giovanni Zangari, *Chair, Electrodeposition Division*

ECS Editorial Boards

(as of December 31, 2012)

Electrochemical Science & Technology Journals

Petr Vanýsek, *Editor*
 Gerald S. Frankel, *Technical Editor*
 Thomas F. Fuller, *Technical Editor*
 Charles L. Hussey, *Technical Editor*
 Shelley D. Minteer, *Technical Editor*
 Rangachary Mukundan, *Technical Editor*
 Dennis G. Peters, *Technical Editor*
 John Weidner, *Technical Editor*
 Martin Winter, *Technical Editor*
 Doron Aurbach, *Associate Editor*
 Thierry Brousse, *Associate Editor*
 Raymond J. Gorte, *Associate Editor*
 Takayuki Homma, *Associate Editor*

Solid State Science & Technology Journals

Dennis W. Hess, *Editor*
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C. L. Faust.....	1962
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W. C. Vosburgh.....	1966
F. L. LaQue.....	1968
S. Ruben.....	1970
C. W. Tobias.....	1972
C. V. King.....	1974
N. B. Hannay.....	1976
D. A. Vermilyea.....	1978
E. B. Yeager.....	1980
H. C. Gatos.....	1982
N. Hackerman.....	1984
E. M. Pell.....	1986
H. H. Uhlig.....	1988
T. R. Beck.....	1990
D. R. Turner.....	1992
J. B. Wagner, Jr.....	1994
R. C. Alkire.....	1996
J. M. Woodall.....	1998
L. R. Faulkner.....	2000
B. Deal.....	2002
W. L. Worrell.....	2004
V. de Nora.....	2006
Robert P. Frankenthal.....	2008
John Newman.....	2010
Dennis Hess.....	2012



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(formerly the Palladium Medal Award, 1951-1977)

C. W. Wagner.....	1951
N. H. Furman.....	1953
U. R. Evans.....	1955
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A. N. Frumkin.....	1959
H. H. Uhlig.....	1961
N. Hackerman.....	1965
P. Delahay.....	1967
T. P. Hoar.....	1969
L. Brewer.....	1971
V. G. Levich.....	1973
M. J. N. Pourbaix.....	1975
H. Gerischer.....	1977
R. Parsons.....	1979
I. M. Kolthoff.....	1981
M. Cohen.....	1983
M. Fleischmann.....	1985
A. J. Bard.....	1987
B. E. Conway.....	1989
J. Newman.....	1991
J.-M. Savéant.....	1993
J. Kruger.....	1995
R. W. Murray.....	1997
J. B. Goodenough.....	1999
N. Sato.....	2001
E. Gileadi.....	2003
R. Rapp.....	2005
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Gordon E. Moore Medal for Outstanding Achievement in Solid-State Science and Technology

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H. C. Gatos.....	1975
R. N. Hall.....	1977
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G. L. Pearson.....	1981
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J. D. Plummer.....	1991
B. E. Deal.....	1993
W. L. Worrell.....	1995
K. E. Spear.....	1997
I. Akasaki.....	1999
A. Reisman.....	2001
R. B. Fair.....	2003
D. Hess.....	2005
Tak H. Ning.....	2007
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Stephen Pearton.....	2011



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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
John S. Newman.....	2008
Derek Pletcher.....	2010
Bruno Scrosati.....	2012



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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
Philip N. Bartlett.....	2007
Henry S. White.....	2009
Peter Bruce.....	2011



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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
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Yasuhiko Ito	2000	A. Baca	2006	Jeffrey R. Dahn	2012
Howard Huff	2000	S. Bandyopadhyay	2006	Stefan DeGendt	2012
Robert F. Savinell	2000	T. Fahidy	2006	Hariklia Deligianni	2012
Roger Staehle	2000	G. Frankel	2006	Andrew Gewirth	2012
Charles W. Struck	2000	C. Jagadish	2006	Meilin Liu	2012
Sergio Trasatti	2000	N. Koshida	2006	Junichi Murota	2012
Dieter M. Kolb	2001	J. Lessard	2006	Sri Narayan	2012
David J. Lockwood	2001	H. Massoud	2006	Trung Van Nguyen	2012
James McBreen	2001	H. Yokokawa	2006	Winston Revie	2012
Patrick J. Moran	2001	B. MacDougall	2006	Daniel Schwartz	2012
Shohei Nakahara	2001	M. Orazem	2006	Esther Takeuchi	2012
William E. O'Grady	2001	D. Misra	2006	Mark Verbrugge	2012
Supramanian Srinivasan	2001	A. Virkar	2006	Petr Vanýsek	2012
Mark Allendorf	2002	A. Wieckowski	2006	Bruce Weisman	2012
William Brown	2002	Simon S. Ang	2007		
Cor Claey's	2002	Viola Birss	2007		
Martin Kendig	2002	Marc Cahay	2007		
Kim Kinoshita	2002	James M. Fenton	2007		
Paul Kohl	2002	Dennis G. Peters	2007		
Zempachi Ogumi	2002	Daniel A. Scherson	2007		
Tetsuya Osaka	2002	Eric D. Wachsman	2007		
		Doron Aurbach	2008		
		Albert J. Fry	2008		

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

Edward G. Weston Summer Fellowship*(continued)*

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
J. Mauzeroll	2003
J. Seegmiller	2004
E. Blair	2005
F. Laforge	2006
Alex G. Güell	2007
Matthew J. Banholzer	2008
Shulei Chou	2009
Binh-Minh Nguyen	2010

Abrin Schmucker	2011
Sujat Sen	2012

**Colin Garfield Fink
Summer Fellowship**

P. Brown	1962
W. G. Lemmermann	1963
W. G. Stevens	1964
J. P. Carney	1965
S. Piekarski	1966
B. S. Pons	1967
R. E. Bonewitz	1968
L. Papouchado	1969
R. G. Reed	1970
R. Fike	1971
D. L. McAllister	1972
R. R. Chance	1973
P. I. Lee	1974
J. B. Flanagan	1975
J. S. Hammond	1976
P. D. Tyma	1977
S. M. Wilhelm	1978
J. D. Porter	1979
R. S. Glass	1980
E. E. Bancroft	1981
T. D. Cabeika	1982
B. L. Wheeler	1983
E. T. T. Jones	1984
D. A. Van Galen	1985
J. S. Hanson	1986
P. Gao	1987
D. T. Schwartz	1988
A. E. Russell	1989
J. Xue	1990
C. K. Rhee	1991
M. J. Shane	1992
C. M. Pharr	1993
J. M. Lauerhaus	1994
S. M. Hendrickson	1995
J. C. Hutchinson	1996
P. V. A. Pamidi	1997
G. S. Hwang	1998
W. Baker	1999
A. Crown	2000
R. Maus	2001
S. Peper	2002
M. Alpuche-Aviles	2003
A. Mugweru	2004
G. Lica	2005
A. Martinson	2006
Prabeer Barpanda	2007
Sau Yen Chew	2008
Hyea Kim	2009
Brian Adams	2010
Tae-Ho Shin	2011
Devika Sil	2012

**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
Sadagopan Krishnan	2007
Meng Jiang	2008
Haizhou Liu	2009
Mohammad Rez Khajavi	2010
Jeyavel Velmurugan	2011
Balazs Berkes	2012

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

F. M. Becket Summer Fellowship

(continued)

W. Cheng.....	1979
P. Davies.....	1981
P. A. Barron.....	1983
G. J. Miller.....	1985
M. Rosenbluth.....	1987
J. D. Cotton.....	1989
J. Philliber.....	1991
P. Agarwal.....	1993
H. C. Slade.....	1995
K. S. Weil.....	1997
G. S. Hwang.....	1999
J. Parrish.....	2001
S. Wasileski.....	2002
E. Clark.....	2003
F. Deng.....	2004
S. Harrison.....	2005
Y. Yang.....	2006
Michael Orthner.....	2007
Marcos Jose Leitao Santos.....	2008
Steve Rhieu.....	2009
James Whitaker.....	2011
Celeste Morris.....	2012

Herbert H. Uhlig Summer Fellowship

Natalia Shustova.....	2008
Venkatasubramanian Viswanathan.....	2009
Swetha Puchakayala.....	2011
Julia van Drunen.....	2012

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. Naffel.....	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
Vijayasekaran Boovaragavan.....	2007
Vijayasekaran Boovaragavan.....	2008
Vijayasekaran Boovaragavan.....	2009
Wenjing (Angela) Zhang.....	2010

Norman Hackerman Young Author Award

(formerly the Young Authors Prize, 1929-1988)

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

Norman Hackerman Young Author Award*(continued)*

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
S. Borini	2005
M. Kunimatsu	2005
Mathieu Bervas	2006
Pradeep Dixit	2006
Steffen Eccarius	2007
A. T. J. van Niftrik	2007
Kevin Ralston	2008
Eu Jin Tan	2008
Yudi Setiawan	2008
Paul Albertus	2009
Louis Hutin	2009
Gijs Dingemans	2010
Erik Langereis	2010
Stephen E. Potts	2010
Xingbao Zhu	2010
Igor Volov	2011
Claudia Fleischmann	2011
Sebastien Couet	2011
Koen Schouteden	2011
Philipp Hönicke	2011
Kiersten Horning	2012
Sykes Mason	2012
Balavinayagam Ramalingam	2012
P. Kavanagh	2003
B. Monahan	2003
O. Rabin	2003
P. Scopece	2003
K. Yasuda	2003
M. Guan	2004
K. Kanaizuka	2004
A. Oide	2004
R. M. Todi	2004
W. J. Cheong	2005
J. Chmiola	2005
S. Chrisanti	2005
C. Drake	2005
D. L. Gonzalez-Parra	2006
Naoko Kamiura	2006
T. Takeyasu	2006
Arun Vijayakumar	2006
Naoaki Hashimoto	2007
Daisuke Kikutani	2007
Toyoki Okumura	2007
Gholamreza Rostamikia	2007
Arun Vijayakumar	2007
Rajwant Singh Bedi	2008
Bryan K. Boggs	2008
John Chmiola	2008
Yuta Ishigami	2008
J. S. O'Brien	2008
Tyler Osborn	2008
Ralf Peipmann	2008
Philippe Perret	2008
Kenji Takada	2008
Vinit Todi	2008
Natalia B. Shustova	2008
Joshua Snyder	2008
Tomomasa Sugiyama	2008
Anasuya Adibhatla	2009
Magdalena Gizowska	2009
Frederik Golks	2009
Karina Kangas	2009
Kiera A. Kurak	2009
Manale Maalouf	2009
Debasish Mohanty	2009
Natalia Shustova	2009
Joko Sutrisno	2009
Jaroslav Syzdek	2009
Alex Avekians	2010
Shayna Brocato	2010
Pablo de la Iglesia	2010
Christian Desilets	2010
Ayesha Maria Hashambhoy	2010
Carolin Lau	2010
Raja S. Mannam	2010
Joshua P. McClure	2010
Sarvesh Pasem	2010
Robert Sacchi	2010
Misato Tashiro	2010
Jesse Benck	2011
Benjamin Caire	2011
Zhebo Chen	2011
Damilola Daramola	2011
Kirsten Marie Jensen	2011
Javed Khan	2011

**ECS General Society Student Poster
Session Awards**

F. Forouzan	1993
D. L. Taylor	1993
L. Abraham	1994
A. J. Aldykiewicz	1994
A. Dalmia	1994
M. Murthy	1994
R. Munkundan	1995
A. E. Thomas	1995
C. E. Ramberg	1995
W. Wang	1995
S. Chen	1996
K. Kowal	1996
C. Leger	1997
E. Potteau	1997
K. Bera	1998
E. Dickenson	1998
G. Q. Lu	1998
M. W. Riley	1998
J. Pearton	1999
A. Templeson	1999
N. Baydokhi	2000
A. Pismenny	2000
A. Besing	2001
V. Sochnikov	2001
S. Dimovski	2002
P. Maitra	2002
H. Ohtsuka	2002
T. Wiley	2002

ECS General Society Student Poster Session Awards

(continued)

Simon Lux.....	2011
Ashley Maes.....	2011
Lingchong Mai.....	2011
Francis Richey.....	2011
Neil Spinner.....	2011
Melissa Vandiver.....	2011
Georgi Bodurov.....	2012
Aurelien Etienne.....	2012
Kiersten Horning.....	2012
Yoon Jang Kim.....	2012
Prabhu Doss Mani.....	2012
K. Sykes Mason.....	2012
Seungha Oh.....	2012
Michael Siedlik.....	2012
Bong Seob Yang.....	2012
Yoshinobu Adachi.....	2012
Kwi Nam Han.....	2012
Takashi Hasegawa.....	2012
Cheng Ai Li.....	2012
Shigeta Yagyu.....	2012

ECS Sponsored Meeting Student Poster Award Winners

Simposio Brasileiro de Electroquímica e Eletroanalítica (SIBEE)

L. M. Nunes.....	2009
V. Dos Santos.....	2011

China Semiconductor Technology International Conference (CSTIC)

C. Santini.....	2009
L. Ma.....	2010
M. B. Gonzalez.....	2011
Chien Chi Chen.....	2012

Euro CVD Award

A. Szkudlarek.....	2011
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IC4N: From Nanoparticles and Nanomaterials to Nanodevices and Nanosystems

M. Gharbi.....	2009
H. N. Green.....	2011

Sociedad Mexicana de Electroquímica (SMEQ) and ECS Mexican Section Meeting

A. Mendez-Albores.....	2008
L. S. Hernandez-Munoz.....	2009
C. Avila-Gonzalez.....	2010
D. C. Martinez-Casillas.....	2011
Lidia G. Trujano-Ortiz.....	2012

Turner Book Prize

S. Speil.....	1942
W. G. Berl.....	1943
J. P. Coyle.....	1944
J. T. Waber.....	1945
B. Cartwright.....	1946
A. E. Hardy.....	1947
M. A. Streicher.....	1948

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

Leadership Circle Awards

Legacy Level

Dow Chemical Co., Central Research, received 2011
Olin Chlor Alkali Products Division, received 2011

Medallion Level

Occidental Chemical Corp., received 2007
Atotech USA, Inc., received 2009
Energizer, received 2009

Diamond Level

General Electric Co., Corporate Research & Development, received 2001
General Motors Research Laboratories, received 2001
Rayovac, received 2002
Duracell, received 2006
IBM Corporation, received 2006

Gold Level

Toshiba Corp., Research & Development Center, received 1998
Siltronic AG, received 1998
Osram Sylvania, Inc., Chemical & Metallurgical Division, received 1999
Sandia National Laboratories, received 2000
International Lead Zinc Research Organization, Inc., received 2003
Medtronic, Inc., Energy and Component Center, received 2004
Toyota Central Research and Development Labs, Inc., received 2004
Yuasa Corp, received 2004
Princeton Applied Research/Solartron Analytical, received 2005
Saft Batteries, received 2006
CSIRO Minerals, received 2007

Industrie de Nora, received 2007
Ballard Power Systems, Inc., received 2008
ECO Energy Conversion, received 2008
Varta Automotive GmbH, Advanced Battery Division, received 2008
Greatbatch, Inc., received 2010
Leclanche S. A., received 2009
Max-Planck-Institut für Festkörperforschung, received 2009
Giner, Inc., received 2010
Greatbatch, Inc., received 2010
TIMCAL Graphite and Carbon Ltd., received 2011

Silver Level

Eltech Systems Corp., received 1992
Tronox LLC, received 1994
Japan Storage Battery Co., Ltd., received 1997
3M Company, received 1998
E. I. Du Pont de Nemours & Co., Inc., HD Microsystems, received 1998
Solartron Instruments, received 1999
Central Electrochemical Research Institute, received 2002
TDK Corp., R&D Center, received 2002
Valence Technology, received 2002
DAISO, Co., Ltd., received 2003
Panasonic Corp., received 2003
C. Uyemura & Co., Ltd., Central Research Lab, received 2005
Electrosynthesis Co., Inc., received 2005
FMC Corporation, Active Oxidants Division, received 2005
Nacional de Grafite, LTDA, received 2005
Permelec Electrode, Ltd., received 2005
PG Industries, Inc., Chemicals Group Technical Center, received 2005
Scribner Associates, Inc., received 2005
Technic Inc., received 2005
Advance Research Chemicals, Inc., received 2007
Yeager Center for Electrochemical Sciences at CWRU, received 2007
PEC North America, received 2009
Quallion, LLC, received 2009
UTC Power, received 2009
Brodard of Nevada, received 2010
Teledyne Energy Systems, Inc., received 2010
OM Group, Inc., received 2012

Bronze Level

Hach Company, Radiometer Analytical Division, received 2002
De Nora Technologie Elettrochimiche S.r.L., received 2003
BAE Systems Battery Technology Center, received 2005
Agilent Laboratories, received 2008
Evonik Degussa GmbH, received 2008
Samsung SDI, received 2008
GAIA-Akkumulatorenwerke GmbH, received 2009
Permascand AB, received 2009

Leadership Circle Award*(continued)*

ZSW Center for Solar Energy & Hydrogen Research, received 2009
 Coolohm, Inc., received 2010
 ElectroChem, Inc., received 2010
 Faraday Technology, Inc., received 2010
 Johnson Matthey, received 2010
 Metrohm USA, received 2010
 Pine Research Instrumentation, received 2010
 Sanyo Electric Co. Ltd., received 2011
 Nissan Motor Co. Ltd., received 2011
 Hydro-Québec, received 2011
 Bio-Logic USA/Bio-Logic SAS, received 2012
 Gamry Instruments, received 2012
 Rockwood Lithium, received 2012
 ENEOS CELLTECH co. Ltd., received 2012
 Fortu Research GmbH, received 2012

**Battery Division****Student Research Award**

J. R. Waggoner1980
 K. E. Yee1980
 W. A. van Schalkwijk1981
 C. Y. Mak1986
 T. I. Evans1987
 C. C. Streinz1988
 J. Weidner1989
 M. G. Lee1990
 E. J. Podlaha1991
 G. E. Gray1992
 D. Qu1993
 P. De Vidts1994
 S. Motupally1995
 J. Xu1996
 Y. Shao-Horn1997
 I. Courtney1998
 G.E. Rousse1999
 V. Srinivasan2000
 M. Zhao2001
 V. Subramaniam2001
 L. Fransson2002
 K.-W. Park2003
 A. Weber2004
 C. Delacourt2005
 K. Kang2006
 Feng Jiao2007
 Nonglak Meethong2009
 Yi-Chun Lu2010
 Christopher Fell2011
 Yuhui Chen2012

Battery Division Research Award

J. J. Lander1958
 D. M. Smyth1959
 T. P. Dirkse1962
 F. G. Will1964

J. Burbank1966
 C. P. Wales1966
 D. Tuomi1968
 Y. Okinaka1970
 A. C. Simon1972
 S. M. Caulder1972
 J. McBreen1974
 T. Katan1976
 S. Szpak1976
 A. Heller1978
 K. R. Bullock1980
 R. A. Huggins1982
 D. Pavlov1984
 G. H. J. Broers1985
 J. L. Devitt1986
 D. H. McClelland1986
 J. P. Gabano1987
 M. Armand1988
 J. Jorne1989
 A. N. Dey1990
 R. E. White1991
 D. N. Bennion1992
 E. Peled1993
 K. M. Abraham1995
 J. Dahn1996
 B. Scrosati1997
 C. Delmas1999
 J. B. Bates2000
 S. Wittingham2002
 K. Kinoshita2003
 J. Newman2004
 G. Ceder2004
 M. Thackeray2005
 T. Ohzuku2006
 Clare P. Grey2007
 Peter G. Bruce2008
 Linda Nazar2009
 Dominique Guyomard2010
 Yang-Kook Sun2011
 Stefano Passerini2012

Battery Division Technology Award

Y. Nishi1994
 K. Ozawa1994
 E. S. Takeuchi1995
 S. Gilman1996
 J.-M. Tarascon1997
 G. E. Blomgren1998
 A. Yoshino1999
 H. Y. Cheh2000
 B. B. Owens2001
 D. Wilkinson2002
 M. Winter2002
 J. Yamaki2003
 M. Yoshio2003
 M. Ue2004
 D. Aurbach2005
 P. Novak2005
 K. Lee2006
 Michel Broussely2007
 Hiroshi Inoue2008
 Satoshi Mizutani2008

Eiji Endoh2009
 Khalil Amine2010
 Jeffrey Dahn2011
 Yet-Ming Chiang2012

**Corrosion Division H. H. Uhlig Award***(formerly the Outstanding Achievement Award of the Corrosion Division 1973-1983)*

M. Cohen1973
 D. A. Vermilyea1975
 J. Kruger1977
 M. J. Pryor1979
 T. R. Beck1981
 N. Sato1983
 P. Kofstad1985
 H. W. Pickering1987
 R. P. Frankenthal1989
 H. Leidheiser1991
 H. Isaacs1993
 W. H. Smyrl1995
 M. J. Graham1997
 K. Hashimoto1999
 D. Macdonald2001
 F. Mansfeld2002
 C. Leygraf2003
 R. Newman2004
 P. Marcus2005
 G. T. Burstein2006
 Edward McCafferty2007
 Martin Stratmann2008
 John R. Scully2009
 Gerald S. Frankel2010
 Patrik Schmuki2011
 Hans-Henning Strehblow2012

Corrosion Division Morris Cohen Graduate Student Award*(formerly the Corrosion Division Award for Summer Study 1986-1988)*

S. D. Scarberry1986
 C. C. Streinz1987
 R. Bianco1988
 M. A. Harper1992
 R. G. Buchheit1993
 J.-F. Yan1994
 B. V. Cockeram1995
 I. Odnevall1996
 D. G. Kolman1997
 C. S. Brossia1998
 M. Verhoff1999
 S. Yu2000
 S. F. Nitodas2001
 K. Cooper2002
 T. Ramgopal2003
 Q. Meng2004
 D. Chidambaram2005
 H. Tsuchiya2006
 Magnus Johnson2007
 Christopher D. Taylor2008

Corrosion Division Morris Cohen Graduate Student Award

(continued)

Mariano Iannuzzi.....	2009
Pouria Ghods.....	2010
Hongbo Cong.....	2011
Mariano Kappes.....	2012



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
Paul A. Kohl.....	2008
Tsu-Jae King Liu.....	2011



Electrodeposition Division Research Award

W. Weil.....	1980
Y. Okinaka.....	1981

E. B. Budevski.....	1982
R. C. Alkire.....	1983
L. T. Romankiw.....	1984
R. J. von Gutfeld.....	1984
J. W. Dini.....	1985
H. R. Johnson.....	1985
H. Leidheiser.....	1986
J. P. Hoare.....	1987
H. Y. Cheh.....	1988
D. S. Lashmore.....	1989
S. Nakahara.....	1990
T. C. Franklin.....	1991
R. E. White.....	1992
P. C. Andricacos.....	1993
M. J. Froment.....	1994
D. Landolt.....	1995
T. Osaka.....	1996
M. Schlesinger.....	1997
Madhav Datta.....	1998
R. Winand.....	1999
H. Honma.....	2000
D. Kolb.....	2002
J. Switzer.....	2003
J. Dukovic.....	2004
P. Bartlett.....	2005
T. P. Moffat.....	2006
Ibro Tabakovic.....	2007
Olaf Magnussen.....	2008
John Stickney.....	2009
Takayuki Homma.....	2010
Philippe Allongue.....	2011
Hariklia Deligianni.....	2012



Electronics and Photonics Division Award

F. A. Trumbore.....	1970
F. C. Paililla.....	1971
M. B. Panish.....	1972
W. A. Pliskin.....	1973
B. E. Deal.....	1974
H. M. Manasevit.....	1975
M. G. Craford.....	1976
A. Y. Cho.....	1977
C. M. Wolfe.....	1978
E. Sirtl.....	1979
J. M. Woodall.....	1980
G. A. Rozgonyi.....	1981
G. W. Cullen.....	1982
D. W. Shaw.....	1983
A. Reisman.....	1984
S-M. Hu.....	1985
E. H. Nicollian.....	1986
B. Schwartz.....	1987
K. E. Bean.....	1988
T. Kamins.....	1989
D. M. Brown.....	1990
C. M. Osburn.....	1991
G. S. Oehrlein.....	1992

B. S. Meyerson.....	1993
G. K. Celler.....	1994
L. C. Kimerling.....	1995
H. Huff.....	1996
A. F. Tasch.....	1997
U. M. Gösele.....	1999
S. N. G. Chu.....	2000
S. P. Murarka.....	2001
S. Cristoloveanu.....	2002
T. Ohmi.....	2003
C. Claeys.....	2004
S. Pearton.....	2005
H. Massoud.....	2006
Yue Kuo.....	2007
Fan Ren.....	2008
Eicke R. Weber.....	2009
Lih J. Chen.....	2010
M. Jamal Deen.....	2011
Chennupati Jagadish.....	2012



Energy Technology Division Research Award

M. W. Verbrugge.....	1994
S. Srinivasan.....	1996
H. R. Kunz.....	1998
A. W. Czanderna.....	1999
R. Selman.....	2001
I. Uchida.....	2001
A. Nozik.....	2003
K. Kinoshita.....	2004
K. Kanamura.....	2005
S. Licht.....	2006
Radoslav Adzic.....	2007
Yang Kook Sun.....	2007
Tom Fuller.....	2008
Krishnan Rajeshwar.....	2009
Jai Prakash.....	2009
John Weidner.....	2010
Karim Zaghib.....	2010
Claude Levy-Clément.....	2011



Energy Technology Division Srinivasan Award

Vijay Ramani.....	2012
Adam Weber.....	2012



Fullerenes, Nanotubes, and Carbon Nanostructures Richard E. Smalley Research Award

Sumio Iijima.....	2008
Phaedon Avouris.....	2009
Robert Haddon.....	2011



Fullerenes, Nanotubes, and Carbon Nanostructures SES Research Young Investigator Award

Nikhil Koratkar.....	2009
Mark C. Hersam.....	2010
Aurelio Mateo-Alonso.....	2012



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
David J. Young.....	2008
Harry L. Tuller.....	2010
Eric Wachsman.....	2012

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

S. Mohny.....	1999
S. M. Haile.....	2001
M. Swihart.....	2003
R. Mukundan.....	2005
Xiao-Dong Zhou.....	2007
Juan Claudio Nino.....	2009
Toshiaki Matsui.....	2011



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

Asahi Glass Company.....	1999
DeNora Tecnologie.....	2005
E-Tek.....	2005
Bayer Material Science AG.....	2005
Ballard Power Systems.....	2007
FuelCell Energy.....	2009
U.S. Army Engineer Research and Development Center, Construction Engineering Research Laboratory, and Electro Tech CP.....	2011

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
N. Jalani.....	2006
Brenda L. Garcia-Diaz.....	2007
Sunil Roy.....	2008
Prabeer Barpanda.....	2009
Brandon Bartling.....	2010
Long Cai.....	2011
Meng Li.....	2012

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
V. Sethuraman.....	2006

Minhua Shao.....	2007
Vinten Dewikar.....	2008
Paul Albertus.....	2009
Satheesh Sambandam.....	2010
Venkatasailanathan Ramadesigan.....	2011
Rainer Kungas.....	2012



Luminescence and Display Materials Division Centennial Award

A. Meijerink.....	2004
A. Srivastava.....	2004
H. Guedel.....	2006
David J. Lockwood.....	2010
Hajime Yamamoto.....	2012



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
Albert Fry.....	2008
Toshio Fuchigami.....	2010
Dennis Peters.....	2012



Physical and Analytical Electrochemistry Division David C. Grahame Award

F. C. Anson.....	1983
J. Newman.....	1985
A. Heller.....	1987
M. J. Weaver.....	1989
B. Miller.....	1991
A. T. Hubbard.....	1993
R. M. Wightman.....	1995
D. M. Kolb.....	1997
P. N. Ross, Jr.....	1999
D. A. Scherson.....	2001
A. Wieckowski.....	2003
H. White.....	2005
Joseph T. Hupp.....	2007
Héctor D. Abruña.....	2009
Masatoshi Osawa.....	2011

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
Bernard Gilbert	2008
C. Austen Angell	2010
Derek Fray	2012



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
Chung-Chiun Liu	2008
Thomas Thundat	2010
Sheikh Ali Akbar	2012



Sensor Division Student Paper Award

Jeffrey Kirsch	2012
Kazuaki Edagawa	2012

Gwendolyn B. Wood Section Excellence Award

Metropolitan New York Section	1975-1976
Columbus Section	1976-1977
Chicago Section	1979-1980
Chicago Section	1980-1981
Chicago Section	1981-1982
Southern Wisconsin Section	1982-1983
Southern Wisconsin Section	1983-1984
Southern Wisconsin Section	1984-1985
National Capital Section	1985-1986
North Texas Section	1986-1987
Southern Wisconsin Section	1987-1988
Chicago Section	1988-1989
Southern Wisconsin Section	1989-1990
North Texas Section	1990-1991

Southern Wisconsin Section	1991-1992
Southern Wisconsin Section	1992-1993
New England Section	1993-1994
National Capital Section	1994-1995
National Capital Section	1995-1996
National Capital Section	1996-1997
Canadian Section and National Capital Section	1997-1998
Chicago Section	1998-1999
New England Section	1999-2000
National Capital and New England Section	2000-2001
National Capital Section	2001-2002
National Capital Section	2002-2003
San Francisco Section	2003-2004
San Francisco Section	2004-2005
San Francisco Section	2005-2006

Canada Section Electrochemical Award

E. J. Casey	1982
Brian E. Conway	1986
L. Young	1990
S. Flengas	1994
Jacek Lipkowski	1998
Jean Lessard	2002
Jeffrey R. Dahn	2006
David Shoesmith	2010

Canada Section R. C. Jacobsen Award

George Fraser	1988
Barry MacDougall	1990
Louis Brossard	1994
Ernest E. Criddle	2002
Sharon G. Roscoe	2006
Jacek Lipkowski	2010

Canada Section Student Award

Jean St-Pierre	1988
Gessie Brisard	1989
James Hinatsu	1990
Gregory Jerkiewicz	1991
Hubert Dumont	1992
Meijie Zhang	1993
Dan Bizzoto	1994
Sylvie Morin	1995
Alexandre Brolo	1996
Aicheng Chen	1997
Ian A. Courtney	1998
Dany Brouillette	1999
Shiyuan Qian	1999
Bryan Park	2000
Luc Beaulieu	2001
Vlad Zamliny	2002
Sandra Rifai	2003
Amy Lloyd	2004
M. Toupin	2006
Thamara Laredo	2007
Arash Shahryari	2008

Mohamed Naser	2009
Mohammed Naser	2010
Ahmad Ghahremaninezhad	2011
Karen Chan	2012

Cleveland Section Ernest B. Yeager Electrochemistry Award

B. Miller	2004
Richard McCreery	2006
Uziel Landau	2008
Jacek Lipkowski	2010
Gerald Frankel	2012

Europe Section Gerischer Award

Akira Fujishima	2003
Michael Graetzel	2005
Allen J. Bard	2007
Rüdiger Memming	2009
Helmut Tributsch	2011

Europe Section Alessandra Volta Award

M. Armand	2000
J.-M. Tarascon	2002
R. G. Compton	2004
Bruno Scrosati	2006
Not Awarded	2010
Jean-Noël Chazalviel	2012

Georgia Section Student Award

Matthew Lynch	2012
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Korea Section Student Award

Ho-Suk Ryu	2006
Jae-Hwan Oh	2007
Sung Ki Cho	2008
Cheol-Min Park	2009
Ji-Hyung Han	2010
Young Woo Lee	2011
Not Awarded	2012

National Capital Section William Blum Award

W. Blum	1958
S. Schuldiner	1960
D. N. Craig	1962
A. Brenner	1964
J. Kruger	1966
J. Burbank	1969
K. H. Stern	1972
B. F. Brown	1974
A. C. Simon	1976
R. T. Foley	1978
R. de Levine	1980
E. McCafferty	1982
R. L. Jones	1984
Ugo Bertocci	1986
P. J. Moran	1988

**National Capital Section
William Blum Award**

M. H. Peterson	1990
D. S. Lashmore	1992
J. R. Scully	1994
Paul M. Natishan	1996
G. D. Davis	1998
W. E. O'Grady	2000
Thomas P. Moffat	2002
J. L. Hudson	2004

**National Capital Section
Robert T. Foley Award**

R.T. Foley	1989
W.J. Hamer	1991
G.E. Stoner	1993
P.J. Moran	1995
P.M. Natishan	1997
J. Kruger	1999
R.G. Kelly	2001

**San Francisco Section Daniel
Cubicciotti Student Award**

L. J. Oblonsky	1995
Y. Ma	1996
C. Wade	1997
C. R. Horne	1998
M. Tucker	1999
L. V. Protsailo	2000
H. Visser	2001
D. Wheeler	2002
J. Hollingsworth	2003
E. Guyer	2004
D. Steingert	2005
Sarah Stewart	2006
James Wilcox	2007
Susan Ambrose	2008
Que Anh Nguyen	Honorable Mention 2008
Yuan Yang	Honorable Mention 2008
Paul Albertus	2009
Andrew Lee	Honorable Mention 2009
Mark Oliver	Honorable Mention 2009

Venkat Viswanathan	2010
Yi Wei Chen	Honorable Mention 2010
Thomas Conry	Honorable Mention 2010
Maureen Tang	2011
Yi Wei Chen	Honorable Mention 2011
Thomas Conry	Honorable Mention 2011
Allison Engstrom	2012
Matthew McDowell	Honorable Mention 2012
Xiongwu Kang	Honorable Mention 2012

ecs transactions

Volume 50—Honolulu, Hawaii

from the PRiME Honolulu meeting, October 7—October 12, 2013

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