ECS strives to provide value to the worldwide community of scientists and engineers who are conducting research in electrochemistry and allied subjects. This value is primarily found in the information that the Society disseminates, and it ultimately provides the stimulus to advance electrochemical and solid state science and technology, which is our mission. In reviewing the accomplishments for the fiscal year ending December 31, 2009, we are very pleased to inform you that ECS advanced the science and satisfied the mission better than any other year in our 108-year history.

Considering the past success of ECS, that would seem like a pretty bold statement; however, the data from our major program areas speak for themselves. Starting with the *Journal of The Electrochemical Society* (JES) and *Electrochemical & Solid State Letters* (ESL), we published a record 1,313 manuscripts in these two peer-reviewed journals. The meeting publications also set new standards as we published a record 91 new issues and 2,407 papers in *ECS Transactions* (ECST); and a combined record of 4,775 abstracts from our spring meeting in San Francisco and fall meeting in Vienna.

The meetings and membership areas also experienced record high interest levels. Membership reached a total of 8,933, and the biannual meetings had a combined total of 4,890 attendees. You will also find some other notable highlights from 2009 in this annual report, such as excellent growth in the financial assets of ECS, and Bylaw amendments to improve our governance and the Board’s fiduciary responsibilities. This all helps to support and improve the ECS mission, which is...

“...to advance the theory and practice at the forefront of electrochemistry, solid-state science, and allied subjects. To encourage research, discussion, critical assessment, and dissemination of knowledge in these fields, the Society holds meetings, publishes scientific papers, fosters training and education of scientists and engineers, and cooperates with other organizations to promote science and technology in the public interest.”

It has not changed much in 108 years, but we are better than ever at satisfying our mission and serving a very important and dynamic scientific community.

Paul M. Natishan
President

Roque J. Calvo
Executive Director
Publications

ECS is proud of its long history of publishing some of the best papers in the field. In 2009, we paused from our busy year of breaking records, to look back at the most highly-cited papers that have been published in JES. In the spring 2009 issue, Interface asked its Divisions to name a specific paper from JES that had maximal impact on the technical activities of its particular group of scientists and engineers. The results read like a “Who’s Who” in the field. One cannot but help be impressed by the overall quality and collective impact of the works—they are “classics” in every sense of the word. The Society’s journals continue to publish the work of outstanding and influential scientists.

In March 2009, ECS Transactions successfully published its 5,000th article, totaling over 50,000 pages from more than 15 regional and international conferences. Over a decade ago, when the subject of creating a digital proceedings publication was first broached at the Society, no one could have expected that ECS Transactions (ECST) would hit such a seminal milestone in such a short period of time. ECS Transactions, established to replace the long-running Proceedings Volumes (PVs), began publishing printed, hardcopy books in 2005. In 2005, the 208th Society meeting was held in Los Angeles, California and produced eight hardcover and electronic issues and another 27 e-only issues, which was a significant increase over the average 12 PVs published per meeting in the past. In May 2006, when the ECS Digital Library was launched, ECST electronic issues (e-issues) were added. All in all, ECST became a successful, full-fledged publication in just a few years.

One of the Society’s long-standing awards not only commemorates the contributions of a past JES Editor and past President, but it also rewards the best efforts young authors. In 2009, ECS received a significant contribution for the Norman Hackerman Young Author Awards, in the form of a matching gift of $50,000 from ECS past President Jerry M. Woodall. The gift completes the challenge campaign he engaged in with ECS to establish the endowment in honor of his mentor and friend, the late Norman Hackerman. ECS successfully secured $50,000 in charitable gifts from its membership, and from the family and friends of Dr. Hackerman.

Thanks to the generosity of Dr. Woodall, ECS can now increase the awards given for the two best papers published in the JES by a young author or co-author. The award amounts have been increased to $1,500 per paper to be divided among the eligible authors. In addition, a $1,000 travel grant will be given per paper in order that the winners may attend the ECS meeting where the award will be presented.

This outstanding gift is one of the largest ever made to ECS. It is an investment in the future of electrochemical and solid-state science and technology and will sustain an opportunity for a student or students to aspire to be the best they can be.

The excellent growth we have experienced in the content of the ECS Digital Library leads to an increase in the dissemination of the science and technology to our membership, at our meetings and through our publications. Although institutional subscriptions increased 7% over 2008, they are not at the level we experienced years ago before the high priced commercial publications cut deeply into library budgets. However, the 7% increase in subscriptions represents excellent new and renewed interest in ECS journals, and our ability to distribute the content has surpassed all historical levels. The power of new types of search engines and the accessibility of the ECS Digital Library have led to dramatic increases in the usage of our publications. Specifically, JES, ESL, ECST, and Meeting Abstracts have experienced a 6.6% increase in full text downloads from the previous record high.

Meetings

The 215th ECS Meeting was held in San Francisco in May 2009, our eighth visit to that “City by the Bay.” Attendees took advantage of their visit to sample the myriad charms of this well-known town: Fisherman’s Wharf, trolley cars, architecture old and new, and too many eateries to count. The meeting itself was also an array of scientific sights and sounds: 47 symposia, 1,579 papers, and over 1,650 attendees. In addition to the technical presentations, our meetings are host to interesting technical exhibits, and the San Francisco meeting showed off the equipment and services of 22 exhibitors. Student activity was a big part of the San Francisco meeting, with over 480 international students from 198 academic institutions.

The Monday Evening Mixer proved to be as popular as ever, with 71 student poster presentations vying for the awards. Approximately 100 international students attended the third ECS Student Mixer held at the local San Francisco club, Biscuits and Blues, to meet their peers and distinguished members of ECS. Noel Buckley, ECS 2008-09 President, along with Board member Doug Hansen and other ECS representatives, greeted students while they enjoyed delicious southern cuisine. Student
representatives from established Student Chapters such as the University of California, Berkeley and the University of Central Illinois shared their local Chapter activities while many student representatives expressed interest in starting a Student Chapter. Vienna, Austria was the site of the second largest meeting in our history. The 216th ECS Meeting was host to 3,200 meeting attendees, and offered 3,225 papers in 44 symposia, in a wide variety of technical areas, including many energy and energy-related topics. Stephansplatz became a familiar stop on the Metro system in Vienna as many attendees made their way between the meeting site and the many delights the city had to offer, from Wiener schnitzel and sacher torte, the opera houses and museums, or even a pleasant walk along the river or canal.

The meeting also was host to some special conferences, including Solid Oxide Fuel Cells XI and EuroCVD/CVD 17, both with a very full program of standing-room only talks and special banquets and tours. The meeting also hosted the In Situ Diagnosis of PEM Fuel Cells Conference sponsored by the German Federal Ministry of Education.

Over 80 sponsors and exhibitors were on hand to supplement the technical program; and we recognized some long-standing Corporate Members for their support of the Society. A “Hot Topic” lecture was given by E. Jennings Taylor on “A Small Business Model for Facilitating Partnerships in the Innovation Ecosystem.” The IE&EE Division continued its outreach to high school-aged students, this time at the Gymnasium und Realgymnasium des Instituts Neulandschule in Vienna.

The 2009 Gordon E. Moore Medal for Outstanding Achievement in Solid State Science and Technology was presented to C. Grant Willson (right) by Noel Buckley (left), 2008-09 ECS President, at the ECS meeting in San Francisco. The Moore Medal is one of the Society’s most prestigious awards.


The Student Poster Session at the ECS spring meeting in San Francisco received 71 poster submissions. The best poster awards were presented at the Society’s Annual Business meeting. In the front is winner Karina Kangas. In the back row, from left to right, are: Doug Hansen, one of the session judges; Debasish Mohanty; Natalia Shustova; Kiera A. Kurak; Anasuya Adibhatla; Vimal Chaitanya, lead organizer; and Pawel Kulesza, another one of the session judges.
Martin Stratmann delivered The ECS Lecture at the plenary session of the 216th ECS Meeting in Vienna, Austria. Dr. Stratmann’s talk was on “Electrochemical Design of Novel Zinc Alloys for the Corrosion Protection of Steel.”

Henry S. White (right) received the 2009 Carl Wagner Memorial Award from Paul Natishan (left), 2009-10 ECS President. The award recognizes 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.

Dieter M. Kolb (right) received the 2009 Olin Palladium Award from Paul Natishan (left), 2009-10 ECS President. The award is one of the Society’s most prestigious, and recognizes outstanding contributions to the fundamental understanding of all types of electrochemical and corrosion phenomena and processes.
Paul Natishan (photo at left, fifth from the left), 2009-10 ECS President, inducted the 2009 Class of ECS Fellows. Standing from left to right are: Kohei Uosaki, Manfred Engelhardt, Uziel Landau, Dolf Landheer, (President Natishan), Tom Fuller, and Thomas P. Moffat. Ikazo Nishiguchi (photo at right) was also named to the 2009 Class of ECS Fellows. Missing from the photo were Vladimir S. Bagotsky, Ugo Bertocci, and Peter Hesketh.

The Vienna Meeting Student Poster Session award winners received their certificates from Paul Natishan, 2009-10 ECS President. Pictured (standing, from left to right) are: E. Jennings Taylor (one of the judges), Gerri Botte (one of the session organizers), Venkat Subramanian (session chair), ECS President Paul Natishan, Poster Session winner Frederik Golks, winner Manale Maalouf, and Oana Leonte (judge). Kneeling in front is winner Jaroslaw Syzdek. Missing from the photo are award winner Magdalena Gizowska and the many other judges who assisted with the competition.
One of the challenges that educators and scientists in electrochemical engineering confront is to attract the next generation of researchers and educators in the field. The Industrial Electrochemistry and Electrochemical Engineering (IE&EE) Division successfully completed its sixth and seventh volunteer Outreach Programs during the ECS meetings in San Francisco and Vienna. The events took place at local high schools, where students participated in a fuel cell car competition designed to introduce them to new electrochemical technology and its potential future impact on our everyday life. The program employs active learning techniques and uses miniature fuel cell cars that can be purchased online, and which were donated to the school at the conclusion of the program. (See this issue for a full story on the Outreach program).

**Technical Divisions**

The ECS IE&EE Division presented the 2009 New Electrochemical Technology (NET) Award to FuelCell Energy (FCE) at its Division Luncheon and Business Meeting in San Francisco last May. From left to right are: Mohammad Farooque, Senior Vice-President and Distinguished Fellow at FCE; Pinakin Patel, key DFC cell and stack developer at FCE; John Weidner, IE&EE Chair; and Gerri Botte, IE&EE Vice-Chair. Other FCE staff who received the award included: Bernard S. Baker (deceased), who was the research, development, and commercialization pioneer at FCE; Hansraj C. Maru, the research and development leader in commercially introducing Direct FuelCell (DFC) power plants; Chao-Yi Yuh, a key developer of the DFC core technology; and Joel Doyon, a key developer of the core DFC components.

**Membership and Governance**

To keep the Society on its astonishing path of “bests,” the ECS Board of Directors (comprised of the Society’s Officers and representatives from the Divisions) is constantly on the alert for ways to be responsive to its members, authors, meeting attendees, and readership. One of the reasons we have been able to maintain—and grow—our programs has been not only our 108-year financial stability, but also our ability to change to meet the needs of an ever-growing constituency.

The Society’s governance documents received a major overhaul in 2008, and in 2009, additional Bylaws changes were approved, notably in the area of the composition of the Board of Directors. To better meet its fiduciary responsibilities and its desire to maintain the integrity of the Society, the Board voted to include a nonprofit financial professional as a voting member of the Board. Changes in U.S. law, and suggested good practices for nonprofit organizations, require that a Board of Directors must ensure that all financial matters of the organization are conducted legally, ethically, and in accordance with proper accounting rules. This nonprofit financial professional will ensure that the Board has the “financial literacy” necessary to understand financial statements, to evaluate bids of accounting firms that may undertake an audit or review, and to make sound financial decisions.

ECS members have been doing their part to make the Society the “best ever,” primarily by excelling in their technical areas. Members receive many awards throughout their careers, but the highest technology award they can win in the U.S. is the National Medal of Technology and Innovation. A number of ECS members have received either this medal or the National Medal of Science. In 2009, Esther S. Takeuchi, ECS 2009-2010 Second Vice-President, was awarded the 2008 medal. Prof. Takeuchi is the Greatbatch Professor in Power Sources Research in the University at Buffalo School of
### Table I. ECS Membership by Class

<table>
<thead>
<tr>
<th>Category</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2009/2008 %Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>5411</td>
<td>5405</td>
<td>5126</td>
<td>5061</td>
<td>4974</td>
<td>5082</td>
<td>5129</td>
<td>0.9</td>
</tr>
<tr>
<td>Member Reps</td>
<td>63</td>
<td>66</td>
<td>61</td>
<td>73</td>
<td>89</td>
<td>116</td>
<td>98</td>
<td>-15.5</td>
</tr>
<tr>
<td>Life</td>
<td>52</td>
<td>46</td>
<td>46</td>
<td>46</td>
<td>45</td>
<td>46</td>
<td>46</td>
<td>0.0</td>
</tr>
<tr>
<td>Emeritus</td>
<td>246</td>
<td>215</td>
<td>230</td>
<td>229</td>
<td>234</td>
<td>248</td>
<td>266</td>
<td>7.3</td>
</tr>
<tr>
<td>Honorary</td>
<td>29</td>
<td>27</td>
<td>25</td>
<td>24</td>
<td>28</td>
<td>25</td>
<td>24</td>
<td>-4.0</td>
</tr>
<tr>
<td><strong>Subtotal Active in Good Standing</strong></td>
<td><strong>5801</strong></td>
<td><strong>5759</strong></td>
<td><strong>5488</strong></td>
<td><strong>5433</strong></td>
<td><strong>5368</strong></td>
<td><strong>5517</strong></td>
<td><strong>5583</strong></td>
<td><strong>0.8</strong></td>
</tr>
<tr>
<td>Delinquent</td>
<td>797</td>
<td>823</td>
<td>1054</td>
<td>1014</td>
<td>941</td>
<td>945</td>
<td>1130</td>
<td>19.6</td>
</tr>
<tr>
<td><strong>Total Active on Record</strong></td>
<td><strong>6598</strong></td>
<td><strong>6582</strong></td>
<td><strong>6542</strong></td>
<td><strong>6447</strong></td>
<td><strong>6309</strong></td>
<td><strong>6462</strong></td>
<td><strong>6693</strong></td>
<td><strong>3.6</strong></td>
</tr>
<tr>
<td>Students</td>
<td>882</td>
<td>790</td>
<td>762</td>
<td>864</td>
<td>1206</td>
<td>1428</td>
<td>1592</td>
<td>-11.5</td>
</tr>
<tr>
<td>Delinquent</td>
<td>330</td>
<td>389</td>
<td>450</td>
<td>440</td>
<td>304</td>
<td>512</td>
<td>648</td>
<td>26.6</td>
</tr>
<tr>
<td><strong>Total Students</strong></td>
<td>1212</td>
<td>1278</td>
<td>1242</td>
<td>1304</td>
<td>1510</td>
<td>1940</td>
<td>2240</td>
<td>15.5</td>
</tr>
<tr>
<td><strong>Total Individual Members</strong></td>
<td><strong>7810</strong></td>
<td><strong>7860</strong></td>
<td><strong>7784</strong></td>
<td><strong>7751</strong></td>
<td><strong>7819</strong></td>
<td><strong>8402</strong></td>
<td><strong>8933</strong></td>
<td><strong>6.3</strong></td>
</tr>
</tbody>
</table>

### Table II. ECS Membership by Division*

<table>
<thead>
<tr>
<th>Division</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2009/2008 %Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>2500</td>
<td>2625</td>
<td>2549</td>
<td>2511</td>
<td>1378</td>
<td>1450</td>
<td>1130</td>
<td>-22.1</td>
</tr>
<tr>
<td>Corrosion</td>
<td>1682</td>
<td>1716</td>
<td>1656</td>
<td>1584</td>
<td>531</td>
<td>521</td>
<td>515</td>
<td>-1.2</td>
</tr>
<tr>
<td>Dielectric Science &amp; Technology</td>
<td>1399</td>
<td>1425</td>
<td>1339</td>
<td>1278</td>
<td>377</td>
<td>375</td>
<td>377</td>
<td>0.5</td>
</tr>
<tr>
<td>Electrodeposition</td>
<td>1802</td>
<td>1888</td>
<td>1782</td>
<td>1727</td>
<td>509</td>
<td>509</td>
<td>500</td>
<td>-1.8</td>
</tr>
<tr>
<td>Electronics &amp; Photonics</td>
<td>2154</td>
<td>2152</td>
<td>1999</td>
<td>1812</td>
<td>815</td>
<td>759</td>
<td>821</td>
<td>8.2</td>
</tr>
<tr>
<td>Energy Technology</td>
<td>2155</td>
<td>2377</td>
<td>2427</td>
<td>2434</td>
<td>929</td>
<td>1060</td>
<td>1146</td>
<td>8.0</td>
</tr>
<tr>
<td>Fullerenes, Nanotubes and Carbon Nanostructures</td>
<td>503</td>
<td>706</td>
<td>887</td>
<td>713</td>
<td>194</td>
<td>205</td>
<td>212</td>
<td>3.4</td>
</tr>
<tr>
<td>High Temperature Materials</td>
<td>1061</td>
<td>1113</td>
<td>1096</td>
<td>991</td>
<td>205</td>
<td>196</td>
<td>209</td>
<td>6.6</td>
</tr>
<tr>
<td>Industrial Electrochemistry &amp; Electrochemical Engr</td>
<td>1365</td>
<td>1454</td>
<td>1393</td>
<td>1343</td>
<td>277</td>
<td>297</td>
<td>301</td>
<td>1.3</td>
</tr>
<tr>
<td>Luminescence &amp; Display Materials</td>
<td>777</td>
<td>841</td>
<td>793</td>
<td>701</td>
<td>110</td>
<td>120</td>
<td>122</td>
<td>1.7</td>
</tr>
<tr>
<td>Organic &amp; Biological Electrochemistry</td>
<td>1112</td>
<td>1243</td>
<td>1122</td>
<td>1026</td>
<td>188</td>
<td>215</td>
<td>222</td>
<td>3.3</td>
</tr>
<tr>
<td>Physical &amp; Analytical Electrochemistry</td>
<td>2500</td>
<td>2614</td>
<td>2554</td>
<td>2428</td>
<td>643</td>
<td>664</td>
<td>652</td>
<td>-1.8</td>
</tr>
<tr>
<td>Sensor</td>
<td>1253</td>
<td>1419</td>
<td>1382</td>
<td>1271</td>
<td>242</td>
<td>247</td>
<td>276</td>
<td>11.7</td>
</tr>
</tbody>
</table>

*From 2007 division statistics include only primary interest. Previous years’ include primary secondary interests.

Engineering and Applied Sciences. She received the medal from President Obama at a White House ceremony in October.

In a statement, President Obama described the medal’s four awardees—of whom Takeuchi is the only woman—as embodying “the very best of American ingenuity and inspiring a new generation of thinkers and innovators. Their extraordinary achievements strengthen our nation every day—not just intellectually and technologically but also economically, by helping create new industries and opportunities that others before them could never have imagined.”

The following is a list of ECS members who have received one of the U.S. National Medals. National Medal of Science winner include: Alfred Cho (1993), Norman Hackerman (1993), Nick Holonyak (1990), Rudolph Marcus (1989), Fred Seitz (1973), and Peter Debye (1965). In addition to Dr. Takeuchi, National Medal of...

**ECS Corporate Membership** enables organizations to participate in, and contribute to, the best ECS has to offer. Every year, ECS recognizes those that have remained loyal members and contributed to the Society’s purpose. In 2009, seven organizations reached milestones in their Corporate membership history with ECS: GAIA Akkumulatorenwerke; Leclanche S.A.; PEC North America; Permascand AB; Quallion, LLC; UTC Power; and ZSW, Center for Solar Energy & Hydrogen Research.

Permascand AB also received a Bronze Level Leadership Circle Award, in San Francisco, for five years of corporate membership with ECS. Receiving the award was **Lars-Ake Näslund** from Permascand AB.

ZSW, Center for Solar Energy & Hydrogen Research, received a Bronze Level Leadership Circle Award, for the 5 years of corporate membership with ECS. **Noel Buckley** (left), 2008-09 ECS President, presented the award to ZSW representative **Pierre Kubiak** (right) at the ECS meeting in San Francisco.

Paul Natishan (center), 2009-10 ECS President, presented Leadership Circle Awards in Vienna to a number of Corporate Members for their years of membership. From left to right are: **Stef Leemans**, PEC North America, Bronze Level (5 years); **Rob Darling**, UTC Power, Silver Level (10 years); (President Natishan); **Himmi Buqa**, Leclanche S.A., Gold Level (25 years); and **Stephan Feller**, GAIA Akkumulatorenwerke, Bronze Level (5 years).
ECS Sections promote the advancement of the best in solid-state and electrochemical science and technology in geographically-relevant groupings throughout the world. Sections have a rich array of programming, from special-topic symposia to tours of local organizations to awards and travel grants for students and other members.

The Canadian Section was extremely active in 2009. The Section’s spring meeting, “Frontier in Electrochemistry,” organized by Jacek Lipowski and Gregory Jerkiewicz, included the Canadian Society of Chemistry (CSC). The invited international speakers were Dieter M. Kolb from Germany, who spoke on “Structure-Reactivity Relations in Electrochemistry,” and Hector Abruña from the U.S., who spoke on “Surfaces, Interfaces, and Morphology Effects in Electrocatalysis.” The 2009 recipient of the Lash Miller Award was Aicheng Chen from Lakehead University in Ontario.

The Section’s fall symposium, organized by Heather Andreas and Sharon Roscoe, presented seven speakers who gave lectures on the topic of “Electrochemistry and the Future: Solving Today’s Problems for a Better Tomorrow.” Phil Bartlett from the University of Northampton gave the keynote lecture entitled, “Discrimination of Mutations in DNA Using Electrochemical SERS;” Aicheng Chen of Lakehead University presented a lecture entitled, “Electrochemical Study of Nanomaterials for Green Chemistry Applications;” and Mohamed Naser from McMaster University, who received the 2009 Student Award of the Canadian Section, presented a lecture entitled, “Theoretical Modeling of Quantum Dot Infrared Photodetectors.”

The Detroit Section had a varied program in 2009, covering various topics in the areas of fuel cells, batteries, supercapacitors, and hydrogen energy. The speakers were from both industry and academia. Advanced batteries pose one of the biggest challenges and opportunities on the road to electrifying the automobile. Thus, the Section held a meeting on “Advanced Automotive Batteries,” along with the Society of Automotive Engineers (SAE), to kick off the 2009-2010 seminar year. The topic proved to be very popular with over 350 attendees and seven exhibitors joining the event. The year concluded with Dawn Bernardi, from Ford Motor Company, presented a well-attended talk entitled, “Mathematical Modeling of Pulse and Relaxation Behavior in Lithium-ion Batteries.”

ECS Student Chapters are great way for students to have an opportunity to understand electrochemical and solid-state sciences, have a venue for meeting fellow students, and to receive recognition for their organized scholarly activities and community services.

The Atlanta Student Chapter at Georgia Tech and the Georgia Section jointly presented an ECS Mini Symposium in February 2009 at Georgia Tech. The event was presided over by (continued on next page)
Noel Buckley, 2008-09 ECS President. A total of 45 ECS student and active members from various departments at Georgia Tech and the University of Georgia at Athens were in attendance. The lunch session before the symposium provided ample opportunity for interaction among all the attendees. Gathered at the U.S. Consulate in Lahore, students shared their experiences and vision for the future as Public Affairs Officer T. Mell officially launched the Lahore Student Chapter of ECS, lauding the student’s initiative and drive. “With the launch of the Lahore Student Chapter, you are joining a vibrant community of over 8,000 scientists and engineers in

ECS Student Chapters

- Atlanta Student Chapter at Georgia Tech, founded 2008, Peter J. Hesketh, Faculty Advisor
- Auburn University Student Chapter, founded 2007, Jeffrey Fergus, Faculty Advisor
- Boston Student Chapter, founded 2009, Advisors: Shriram Ramanathan, Yet-Ming Chiang, and Eugene Smotkin
- Technical University Brno Student Chapter, founded 2006, Jiri Vondrak, Faculty Advisor
- University of California - Berkeley Student Chapter, founded 2006, John Newman, Faculty Advisor
- University of Central Florida Student Chapter, founded 2000, Kalpathy Sundaram, Faculty Advisor
- Central Illinois Student Chapter, founded 2008, Andrzej Wiekowski, Faculty Advisor
- University of Cincinnati Student Chapter, founded 2007, Marc Cahay, Faculty Advisor
- ECS Cleveland Section and Ernest B. Yeager Center for Electrochemical Sciences Joint Student Chapter, founded 2005, Dan Scherson, Faculty Advisor
- Florida International University Student Chapter, founded 2009, Chunlei Wang, Faculty Advisor
- University of Florida Student Chapter, founded 2005, Eric Wachsman, Faculty Advisor
- Grand Valley State University Student Chapter, founded 2008, Cory M. DiCarlo, Faculty Advisor
- Kerala, India Student Chapter at CUSAT, founded 2008, M. K. Jayaraj, Faculty Advisor
- Lahore, Pakistan Student Chapter, founded 2008, Inam Ul Haque, Faculty Advisor
- New York Capital Region Student Chapter, founded 2006, Dan Lewis, Faculty Advisor
- The Ohio State University Student Chapter, founded 2006, Gerald Frankel, Faculty Advisor
- Research Triangle Student Chapter Student Chapter, founded 2009, Wesley Hendersen, Faculty Advisor
- University of Rome “Tor Vergata” Student Chapter, founded 2006, Enrico Traversa, Faculty Advisor
- Tel Aviv University Student Chapter, founded 2009, Advisors: Eliezer Gileadi and Yosi Shacham-Diamand
- University of Texas at Austin Student Chapter, founded 2006, Ram Manthiram, Faculty Advisor
- University of Virginia Student Chapter, founded 2006, Rob Kelly, Faculty Advisor

School children during the spectroscope making (top) and attending the practical classes (bottom) during the CUSAT Chapter’s ten-day workshop for school children in collaboration with Department of Physics at CUSAT.

(continued from previous page)
The ECS Lahore-Pakistan Student Chapter organized a lecture by Peter Langer from the Department of Chemistry at the University of Rostock, Germany. The event was held in July 2009 at UET in Lahore. Dr. Langer shared his experiences on the “Synthesis of Carba- and Heterocycles Based on One-Pot Cyclizations of Free and Masked Dianions.”

Mohammad Ashraf Tahir, Director of Laboratories and Training Programs, and the DNA Technical Manager, for the Office of the Cuyahoga County Coroner (U.S.) made a short visit to Lahore, and delivered a lecture in August at UET. He gave a brief introduction to forensic sciences; its importance; and the utilization of the latest analytical techniques, especially on DNA sequencing and mass spectrometry in probing crucial criminal cases.

The Cochin University of Science and Technology (CUSAT) Student Chapter (Kerala, India) was officially inaugurated on February 28, 2009—which was also National Science Day in honor of Sir C. V. Raman—by Louis Godfrey, HOD Department of Physics, CUSAT. Technical discussions were carried out by K. P. Vijayakumar on “Third Generation Solar Cells: Physics and Materials,” and by S. Jayalekshmi with excerpts from a “Chandrayaan Dream.” M. K. Jayaraj, Chapter Advisor, gave a vote of thanks. The Chapter has been organizing monthly lectures on various topics on solid-state physics, electrochemistry, optoelectronics, and other advanced topics.

The Chapter also organized a ten-day workshop for school children in collaboration with Department of Physics, CUSAT. The workshop was held in April. N. Chandramohanakumar (Registrar, CUSAT) delivered the inaugural address. Godfrey Louis, HOD, Department of Physics, CUSAT, presided over the function. V. C. Kuriakose welcomed the gathering, and M. K. Jayaraj proposed a vote of thanks.

The workshop was intended to provide the budding scientists with hands-on experience in various experiments. They also were given an opportunity to become familiar with the research programs of the Department of Physics. Classes were conducted by eminent teachers to improve their basic understanding of the subject.

The Grand Valley State University Student Chapter of ECS had a very good first year. Helping them through their organizational progress were Chapter President Renee Bouley and Vice-President Benjamin Eggleston. Two main areas of service were pursued by Chapter members during the past academic year. The first was to aid in the Chemistry Department’s attempts at integrating a larger amount of electrochemical subject matter in the curriculum. With the help of students from the Chapter acting as lab “guinea pigs,” and with assistance with materials from an in-house Pew Teaching and Technology Grant, a cyclic voltammetry laboratory session neared completion. Real guinea pigs were actually part of the focus of the second service activity for the Chapter as members were also helping at a local small animal rescue.
ECS sponsors or actively participates in many meetings, small and large, throughout the year. Sometimes the sponsorship is requested by a conference that desires to have the benefits of the ECS name affiliated with its meeting. In other instances, ECS plays a more substantial role, such as our sponsorship of the China Semiconductor Technology International Conference (CSTIC). The 2009 edition was held in March 2009, with 239 speakers and 550 attendees from around the world. The conference was sponsored by ECS and by SEMI, a global industry association serving the manufacturing supply chains for the microelectronic, display, and photovoltaic industries. ECS again sponsored three travel awards for the best student poster presentations. These substantial awards provide free registrations to the winners and travel funds to allow the winners to attend an ECS meeting.

The conference had nine symposia covering most of the aspects of semiconductor technology including devices, design, lithography, integration, materials, processes, and manufacturing as well as emerging semiconductor technologies and silicon material applications. Papers from the conference were published in ECS Transactions.

The second international conference, “From Nanoparticles and Nanomaterials to Nanodevices and Nanosystems” (IC4N) was held in June 2009 on the Island of Rhodes, Greece. The IC4N was co-sponsored by ECS and the conference had many member attendees and symposia organizers including Krishnan Rajeshwar (Editor of Interface). The ECS Student Poster Award winner was Mohamed Gharbi (University of Houston), for “The Origins of Electromechanical Indentation Size Effect in Ferroelectrics.” This winner received one year of ECS student membership; a registration waiver to the 217th ECS Meeting in Vancouver (April 2010); and a $1,000 travel grant to attend that meeting.

Because ECS is headquartered in the U.S., we participate in a program called Congressional Visits Days (CVDs). The Federation of Materials Societies (FMS), of which ECS is a member, organizes such CVDs annually and it mobilizes scientists and engineers to address the importance of adequately funding research and development in the sciences and engineering. Each spring scientists, engineers, and students from universities arrive in Washington, DC to discuss these issues with their representatives in Congress.
Within a month of the 2009 CVD visit (on April 27, 2009), U.S. President Obama gave a speech before the National Academies of Science—“The Necessity of Science”—reflecting the goals communicated by the FMS delegations on Capitol Hill. In the speech he affirmed his commitment to double funding for science and STEM (science, technology, engineering, and mathematics) education. President Obama said, “At such a difficult moment, there are those who say we cannot afford to invest in science, that support for research is somehow a luxury at moments defined by necessities. I fundamentally disagree. Science is more essential for our prosperity, our security, our health, our environment, and our quality of life than it has ever been before.”

While record-setting and achieving the best in any given year are true accomplishments, ECS is committed to continually do our part in bringing the best in our science to the world-wide community that will address the challenges ahead of us all.

---

**ECS Donors**

The following individuals and organizations have helped support ECS’s many activities. We thank them for their generous support of the Society.

**Endowed Funds**

*We are grateful to the following donor for its generous support of our Education Endowment. This endowment helps to insure the continuation of bold advances in electrochemical and solid-state science and technology.*

Fondazione Oronzio de Nora Casella

**Businesses, Corporations, and Organizations**

*We are grateful to the following businesses, organizations, and corporations for their generous support of $5,000 and above in support of our mission.*

- Bio-Logic USA
- Cambridge NanoTech, Inc.
- Gelest, Inc
- Maccor
- Merck KGaA
- NexTech Materials Ltd
- Ningbo Institute of Material Technology & Engineering (NIMTE)
- Plansee AG
- SOFC Society of Japan

**Government**

*We are grateful to the following government institutions for their generous support of $5,000 and above in support of our mission.*

- Air Force Office of Scientific Research
- Office of Naval Research

**Individuals**

*We are grateful to the following individuals for their generous gifts of $1,000 and above in support of our mission.*

- James Acheson
- James Amick
- Larry Faulkner
- Karl Kadish
- Kelly Lazzaroni
- Edward W. Miller
- Jerry M. Woodall

**The Legacy Society**

*The Legacy Society honors benefactors who have provided for the Society in a variety of ways—through their wills, a charitable trust, a life-income arrangement, a life insurance policy, or a retirement plan.*

- Robert P. Frankenthal
Board of Directors
(as of October 2009)

Paul M. Natishan
President and Board Chair
U.S. Naval Research Laboratory, USA

William D. Brown
First Vice-President
University of Arkansas, USA

Esther Takeuchi
Second Vice-President
University at Buffalo, SUNY, USA

Fernando Garzon
Third Vice-President
Los Alamos National Laboratory, USA

Johna Leddy
Secretary
University of Iowa, USA

John R. Susko
Treasurer
IBM, USA (retired)

Roque J. Calvo
Executive Director
ECS

D. Noel Buckley, University of Limerick, Ireland
Roque Calvo, ECS, USA
Alison Davenport, University of Birmingham, UK
Nancy Dudney, Oak Ridge National Laboratory, USA
Al Fry, Wesleyan University, USA
Dirk Guldi, University of Erlangen-Nurnberg, Germany
Uwe Happek, University of Georgia, USA
Yue Kuo, Texas A&M University, USA
Barry MacDougall, National Research Council, Canada
Jing Li, NASA Ames Research Center, USA
Durgamadhav Misra, New Jersey Institute of Technology, USA
Sri Narayan, Jet Propulsion Laboratory, USA
Gery Stafford, NIST, USA
Paul Trulove, U.S. Naval Academy, USA
John Weidner, University of South Carolina, USA
Eric Wuchina, Naval Surface Warfare Center, USA

ECS Editorial Boards
(as of December 31, 2009)

Journal of The Electrochemical Society
Daniel Scherson, Editor
Thomas Fuller
Takayuki Homma
Charles L. Hussey
John Kouvetakis
Yue Kuo
Dolf Landheer
Mark Orazem
Ashok Shukla
Martin Winter

Interface
Krishnan Rajeshwar, Editor

Electrochemical and Solid-State Letters
Dennis Hess, Editor
Doron Aurbach
Jennifer Bardwell
Andrew Gewirth

ECS Transactions
John Weidner, Editor
James M. Fenton

Headquarters Staff
(as of June 15, 2010)

Roque J. Calvo, Executive Director
Mary E. Yess, Deputy Executive Director
Dinia Agrawala, Interface Production Manager
Karen Chmielewski, Customer Service Representative
Anne Clementson, Publications Assistant
Paul Cooper, Journals Systems Manager
Corey Eberhart, Global Sales Manager
Tim Fest, Associate Director of Exhibits and Sponsorship
Lauren Germano, Administrative Assistant
Annie Goedkoop, Director of Publications
Andrea L. Guenzel, Journals Production Assistant
Colleen Klepser, Executive Administrator
John Lewis, Associate Director of Conference Proceedings
Kathy Mattiello, Customer Service Representative
Kimberly Milec, Director of Finance
Stephanie Plassa, Director of Meetings and Exhibits
Beth Schademann, Publications Production Assistant
Beth Anne Stuebe, ECST Production Assistant
Ellen M. Tiano, Assistant Director of Membership
Paul J. Urso, Associate Director of Technical Programming
Corporate Partners

3M Company
5Pascal S.r.l.
Acta S.p.a.
Advance Research Chemicals, Inc.
AFCC Automotive Fuel Cell Cooperation Corp.
Agilent Technologies
Air Liquide
Air Products and Chemicals Inc.
AIXTRON AG
AJA International
ALD Technologies LTD
ALS Co., Ltd
AMEL Instruments
American Scientific Publishers
AMETEK – Scientific Publishers
Annealsys
Applied Materials, Inc
Applied Microengineering LTD
Arbin Instruments
Asahi Glass Co., Ltd
Asahi Kasei Corporation
ASM International
Assing SPA
ATV Technologie GmbH
Aviza Technology
BAE Systems Applied Technologies
Ballard Power Systems, Inc.
BASF Fuel Cell, Inc.
Bio-Logic USA/Bio-Logic SAS
Biosensing Instrument, Inc.
Bondtech Co. Ltd.
Brennstoffzellen Initiative Sachsen e.V.
Broddarp of Nevada
BVT Technologies, a.s.
C. Uyemura & Co. Ltd.
Cabot Corporation
Cambridge NanoTech, Inc.
Canon ANELVA Corporation
Central Electrochemical Research Inst
CH Instruments, Inc.
Chemetall GmbH
CNR - Molecular Design Department
COMSOL, Inc
Consorzio INSTM
Cofohm, Inc.
Crosslight Software
CSIR, Materials Science & Manufacturing, Energy & Processes
cyberTECHNOLOGIES GmbH
Denso Corporation
Department of Chemistry, The University of Akron
DigiKey Corporation
DNV
Dow Chemical Co.
Duracell
Dynamic Throughput, Inc.
EaglePicher Technologies LLC
EBZ GmbH Fuel Cells & Process Technology
ECN – Energy Research Centre of the Netherlands
ECO Energy Conversion
eDAQ, Inc.
EK Technologies GmbH
ElectroChem, Inc.
Electrosynthesis Company, Inc.
EMD Chemicals (a Merck KGaA affiliate)
ENEOS CELLTECH Co., Ltd.
Energizer
Entrepix, Inc.
E-One Moli Energy
ESI Group
ESL Elektronik GmbH
EV Group E. Thallner GmbH
Evans Analytical Group
Evonik Litarion GmbH
Exponent, Inc.
Faraday Technology, Inc.
Fili-Tech Inc.
FlackTek, Inc.
Florida Solar Energy Center
Flow Services, Inc.
FMC Corporation, Peroxylgens Division
Forschungszentrum Julich GMBH
Fortu Research GmbH
Fraunhofer Institute
Frontier Semiconductor
FSI International
Fuel Cell Technologies
fuelcellmaterials.com
Fuji Electric Advanced Technology Co., Ltd.
Garnery Instruments
Gelest, Inc.
General Electric Global Research
General Motors Research Labs
Giner, Inc./GES
Global Tubsteng & Powders Corporation
Grace Davison Discovery Sciences
Greatbatch, Inc.
GS-Yuasa Corporation
HEKA Elektronik Dr. Schulze GmbH
Hiden Analytical
High Power Lithium
Hohsen Corporation
Hokuto Denko, Corp
Honda R&D Co., Ltd.
Honda Research Institute USA, Inc.
Hosokawa Micron Powder Systems
Hosokawa Micron Powder Systems Hydro-Quebec
IBM Corporation
ICX Technologies
IJI Cambria Scientific Ltd
IML 2010
Industrie De Nora S.p.A.
INFICON
Ingenieurvere Peter Schrem
International Lead Zinc Research Org.
iNULA / Metrohm Autolab
IonPower
IVIUM Technologies
John Wiley & Sons, Inc.
Johnson Controls Hybrid and Recycling GmbH
Johnson Matthey Technology Centre
Jusung Engineering
KEMSTREAM
Keratol
KLA-Tencor
Kurt J. Lesker Company
Lam Research
Lawrence Berkeley National Laboratory
Leclanche SA
Levitronix LLC
LLNL
Los Alamos National Laboratory
MACCOR, Inc.
MALIT Group
Marubeni Information Systems Co., Ltd.
Mateck GmbH
Materials Mates Italia
Matheson Tri-Gas
Mattson Technology, Inc.
Maxtek, A Division of Infinicon
Measurnet Technology
Medtronic Inc.
Merck KGaA
Metrohm Autolab
Metrohm USA
Mitsubishi Chemical Corporation
Mitsubishi Heavy Industries, LTD
Mitsui Engineering & Shipbuilding Co
MTI Corporation
N.E. Chemcat Corporation
Nacional de Grafito LTDA
National Research Institute for Electrical Engineering - INGIDIE ICPE
Net Flow Research
Next Energy – EWE - Forschungszentrum fuer Energie-Technologie
NexTech Materials, Inc.
Ningbo Institute of Material Technology and Engineering (NIMTE)
Nippon Chemical Industrial Co., Ltd
Nissan Motor Co., Ltd.
NIST
NuVant Systems, Inc.
NXP Semiconductors
Occidental Chemical Corp.
Okuno Chemical Industries, Co., Ltd.
Olin ChlorAlkali Products Division
OM Group, Inc.
OMROM Corporation
Oxford Instruments
Panasonic
PEC North America
Perms scand AB
Permelec Electrode Ltd.
Picosun
Pine Research Instrumentation
Plansee AG
PPG Industries, Inc.
Praxair, Inc.
Pred Materials International, Inc.
QUALCOMM
Quaillon, LLC
Quantachrome Instruments
Radiometer Analytical, A Hach Company Brand
Rayovac Battery Group
Renner Kenner
Resodyn Acoustic Mixers
Robert Bosch GmbH
Rohm & Haas
Royal Society of Chemistry
SAFC Hitech
Satt Batteries, Specialty Batteries Group
Sandia National Labs
SANYO Electric Co., Ltd.
SCNTE
Scribner Associates, Inc.
SDI
Semitool, Inc.
Sensoron Technologies AS
SES Research
SEZ
Shimadzu
Sigma-Aldrich
Siltronic AG
SOITEC
Sonocan, Inc.
SPDRA, Inc
Specac, Inc.
SRI International
Staxera GMBH
SUSS MicroTech
SWITCH Materials Inc.
Tanaka Kikinzoku Kogyo K.K.
TDI, Inc.
TDK Corporation, Device Development Center
Technic Inc.
Teledyne Energy Systems, Inc.
Test Solutions
The Institution of Engineering and Technology (IET)
The Kansai Electric Power Co., Inc.
The SOFC Society of Japan
Thermo Fisher Scientific
TIMCAL Ltd.
Tokuyama Corporation
Tokyo Ohka Kogyo Co, Ltd.
Toshiba Fuel Cell Power Systems Corp.
Toyota Central Resch & Dev Lab
Toyota Motor Engineering & Manufacturing
Tuskuba Materials Information Laboratory, Ltd.
Umicoire AG & Co. KG
University of Connecticut
University of II
UTC Power Corporation
Valence Technology
Varian, Inc.
Veeco Instruments
Voltaiックス, Ltd.
Wasatch Molecular
Williamson Intellectual Property Law, LLC
Yamatke Corporation
Yeager Ctr for Electrochemical Sciences
ZAHNER-elektrik GmbH & Co. KG
Zhangjiagang Guotai Harong New Chemical
ZSW
## Financial Summary

### Consolidated Statement of Financial Positions (For the year ended December 31, 2009)

<table>
<thead>
<tr>
<th>Assets</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$989,327</td>
</tr>
<tr>
<td>Accounts receivable, net</td>
<td>197,441</td>
</tr>
<tr>
<td>Prepaid expenses, deposits, and other assets</td>
<td>117,602</td>
</tr>
<tr>
<td>Investments in marketable securities</td>
<td>5,453,003</td>
</tr>
<tr>
<td>Custodial account investments</td>
<td>634,119</td>
</tr>
<tr>
<td>Deferred Rent</td>
<td>67,537</td>
</tr>
<tr>
<td>Investments in real estate:</td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>1,603,427</td>
</tr>
<tr>
<td>Buildings, less accumulated depreciation of $265,884</td>
<td>3,011,455</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td><strong>$12,073,911</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Liabilities and Net Assets</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Liabilities</td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>$409,522</td>
</tr>
<tr>
<td>Deferred revenue</td>
<td>844,568</td>
</tr>
<tr>
<td>Custodial Account Liability</td>
<td>634,119</td>
</tr>
<tr>
<td>Security deposits</td>
<td>40,453</td>
</tr>
<tr>
<td>Deferred Compensation</td>
<td>3,088</td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td><strong>1,931,750</strong></td>
</tr>
<tr>
<td>Net assets</td>
<td></td>
</tr>
<tr>
<td>Unrestricted</td>
<td>8,916,135</td>
</tr>
<tr>
<td>Temporarily restricted</td>
<td>417,173</td>
</tr>
<tr>
<td>Permanently restricted</td>
<td>808,853</td>
</tr>
<tr>
<td><strong>Total net assets</strong></td>
<td><strong>10,142,161</strong></td>
</tr>
<tr>
<td><strong>Total liabilities and net assets</strong></td>
<td><strong>$12,073,911</strong></td>
</tr>
</tbody>
</table>

### Consolidated Statement of Changes in Net Assets (For the year ended December 31, 2009)

<table>
<thead>
<tr>
<th>Revenues</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Publications</td>
<td>$2,917,414</td>
</tr>
<tr>
<td>Membership</td>
<td>703,672</td>
</tr>
<tr>
<td>Society meetings and activities</td>
<td>2,241,386</td>
</tr>
<tr>
<td>Interest and dividend income</td>
<td>398,091</td>
</tr>
<tr>
<td>Contributions and grants</td>
<td>67,858</td>
</tr>
<tr>
<td>Rental Income</td>
<td>442,325</td>
</tr>
<tr>
<td>Other revenues</td>
<td>29,872</td>
</tr>
<tr>
<td><strong>Total revenues</strong></td>
<td><strong>$6,808,618</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Program services</td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td>$2,192,140</td>
</tr>
<tr>
<td>Membership</td>
<td>155,451</td>
</tr>
<tr>
<td>Society meetings and activities</td>
<td>1,842,981</td>
</tr>
<tr>
<td>Awards, fellowships, and grants</td>
<td>196,001</td>
</tr>
<tr>
<td><strong>Total program services</strong></td>
<td><strong>$4,386,573</strong></td>
</tr>
<tr>
<td>Supporting services</td>
<td></td>
</tr>
<tr>
<td>General and administrative</td>
<td>1,309,424</td>
</tr>
<tr>
<td>Fundraising</td>
<td>31,183</td>
</tr>
<tr>
<td>Rental operations</td>
<td>467,951</td>
</tr>
<tr>
<td><strong>Total supporting services</strong></td>
<td><strong>$1,808,558</strong></td>
</tr>
<tr>
<td>Increase in net assets from operations</td>
<td>$605,487</td>
</tr>
<tr>
<td>Net change in fair value of investments</td>
<td>579,083</td>
</tr>
<tr>
<td>Change in net assets</td>
<td>1,184,570</td>
</tr>
<tr>
<td>Net assets, beginning of year</td>
<td>8,957,591</td>
</tr>
<tr>
<td>Net assets, end of year</td>
<td>$10,142,161</td>
</tr>
</tbody>
</table>

These financial statements are a condensed version of the audited statements of ECS for the year ending December 31, 2009. 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, Inc and its Divisions, Groups and Sections, and the LLC. All intercompany balances and transactions have been eliminated in consolidation.

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

2—Reclassifications

At December 31, 2008, the unrestricted net assets on the consolidated level have been reduced by $689,581. Approximately $402,000 of this adjustment was to correct prior year errors in the classification of net assets. Also, at the consolidated level, at December 31, 2008, the temporarily restricted net assets have been increased by $69,433 and the permanently restricted net assets have been increased by $218,641 to correct prior year errors in the classification of net assets. However, in view of the reclassifications, the 2008 financial information is not comparable. Therefore, there is not a presentation of the December 31, 2008 financial information.

3—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, 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 filing of ECS. The Society files tax returns in the U.S. federal jurisdiction and New Jersey. The Society has no open years prior to December 31, 2006. The Society adopted the accounting pronouncement that provides guidance on uncertain tax positions as of January 1, 2009. Upon adoption of this accounting pronouncement, the Society had unrecognized tax benefits at December 31, 2009.

4—Investments

Investments in equities and fixed income instruments are reported at fair market value, and investment in real estate are 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, 2009 are summarized as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
<th>Market Value</th>
<th>Unrealized Appreciation (Depreciation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Money market funds</td>
<td>$208,877</td>
<td>$208,877</td>
<td>$ --</td>
</tr>
<tr>
<td>Mutual funds</td>
<td>2,949,619</td>
<td>2,976,538</td>
<td>26,919</td>
</tr>
<tr>
<td>Certificate of deposit</td>
<td>1,300,858</td>
<td>1,319,758</td>
<td>18,900</td>
</tr>
<tr>
<td>Corporate and U.S. bonds</td>
<td>1,419,129</td>
<td>1,581,949</td>
<td>162,820</td>
</tr>
<tr>
<td>Real Estate</td>
<td>4,039,993</td>
<td>4,039,993</td>
<td>--</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$9,918,476</td>
<td>$10,127,115</td>
<td>$208,639</td>
</tr>
</tbody>
</table>

5—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 an ECS endowment fund. The endowment funds include both donor-restricted funds and funds designated by the Board of Trustees to function as endowments. As required by GAAP, net assets associated with endowment funds are classified based on the existence or absence of donor-imposed restrictions.

The Society’s policy requires 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 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.

6—ECS Holding 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 $4,420,926. 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 $442,325 (net of Society’s rentals of $74,340) for the year ended December 31, 2009.

7—Independent Accounting Firm

The Society engaged the services of the independent accounting firm, WithumSmith+Brown, PC (WS+B), to conduct the 2009 annual audit. In the opinion of WS+B the Society’s financial statements present fairly, in all material respects, the financial position of The Electrochemical Society and subsidiaries as of December 31, 2009 and the changes in their net assets and their cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

8—Report of the ECS Audit Subcommittee

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

The members of the Financial Policy Advisory Audit Subcommittee in 2009 were Ralph White (Chair), Robin Susko, Petr Vanysek, Robert Kelly and Lloyd George.

The ECS Audit Subcommittee with the exception of Petr Vanysek (not present) discussed with the independent auditors the overall scope and plans for their respective audits. The Subcommittee meets with the independent auditors with and without management present, to discuss the results of their examinations, their evaluations of the Society’s internal control, compliance with laws and regulations, and the overall quality of the Society’s financial reporting.

Based on the discussions referenced above, the ECS Audit Subcommittee has recommended for acceptance to the Board of Directors the audited financial statements for the year ended December 31, 2009. The Subcommittee has also recommended the retention of WithumSmith+Brown, PC as the Society’s independent auditors for the year ending December 31, 2010.
ECS Honor Roll

Past Presidents of the Society

J. W. Richards ......................... 1902-1904
H. S. Carhart ........................... 1904-1905
W. D. Bancroft ........................ 1905-1906
C. Hering ............................... 1906-1907
C. F. Burgess ........................... 1907-1908
E. G. Acheson ......................... 1908-1909
L. H. Baekeland ....................... 1909-1910
W. H. Walker ............................ 1910-1911
W. R. Whitney .......................... 1911-1912
W. L. Miller ............................. 1912-1913
E. F. Roebel ............................. 1913-1914
F. A. Lidbury ........................... 1914-1915
L. Addicks .............................. 1915-1916
F. A. J. FitzGerald .................... 1916-1917
C. G. Fink ............................... 1917-1918
F. J. Tone ............................... 1918-1919
W. D. Bancroft .......................... 1919-1920
W. S. Landis ............................ 1920-1921
A. Smith ................................. 1921-1922
C. G. Schlueberberg ................... 1922-1923
A. T. Hinchley .......................... 1923-1924
H. C. Parmelee .......................... 1924-1925
F. M. Backet ............................ 1925-1926
W. Blum ................................. 1926-1927
S. C. Lind ............................... 1927-1928
P. J. Kruezi ............................. 1928-1929
F. C. Frary .............................. 1929-1930
L. Kahlenberg ........................... 1930-1931
B. Stoughton ............................ 1931-1932
R. A. Witherspoon ...................... 1932-1933
J. Johnston .............................. 1933-1934
H. S. Lukens ............................. 1934-1935
J. H. Crichtett ......................... 1935-1936
D. A. MacInnes ......................... 1936-1937
W. G. Harvey ............................ 1937-1938
R. L. Baldwin ......................... 1938-1939
H. J. Creighton ......................... 1939-1940
F. C. Mathers ........................... 1940-1941
R. R. Ridgway ........................... 1941-1942
E. M. Baker .............................. 1942-1943
R. M. Burns ............................. 1943-1944
S. D. Kirkpatrick ...................... 1944-1945
W. R. Vezey ............................. 1945-1946
W. C. Moore ............................. 1946-1947
G. W. Heise ............................. 1947-1948
J. A. Lee ................................. 1948-1949
A. L. Ferguson ........................... 1949-1950
C. L. Faust ............................... 1950-1951
R. M. Hunter ............................. 1951-1952
J. C. Warner ............................. 1952-1953
R. J. McKay .............................. 1953-1954
M. J. Udy ................................. 1954-1955
H. H. Uhlig .............................. 1955-1956
H. Thurnauer ............................ 1956-1957
N. Hackerman ............................ 1957-1958
S. Swann ................................. 1958-1959
W. C. Gardiner ........................... 1959-1960
R. A. Schaefer ........................... 1960-1961
H. B. Linford ............................ 1961-1962
F. L. LaQue .............................. 1962-1963
W. J. Hamer .............................. 1963-1964
L. I. Gilbertson ......................... 1964-1965
E. B. Yeager ............................. 1965-1966
H. J. Read ................................. 1966-1967
H. C. Gatos ............................... 1967-1968
I. E. Campbell ......................... 1968-1969
N. C. Cahoon ............................. 1969-1970
C. W. Tobias ............................. 1970-1971
C. V. King ............................... 1971-1972
T. D. McKinley ......................... 1972-1973
N. B. Hannay ............................. 1973-1974
D. A. Vermilyea ......................... 1974-1975
M. J. Pryor ............................... 1976-1977
D. N. Bennion ............................ 1977-1978
D. R. Turner ............................. 1978-1979
J. B. Berkowitz .......................... 1979-1980
E. M. Pell ................................. 1980-1981
R. J. Brodell ............................. 1981-1982
F. J. Strieter ............................ 1982-1983
J. B. Wagner, Jr. ....................... 1983-1984
P. C. Milner .............................. 1984-1985
R. C. Alkire ............................. 1985-1986
R. E. Enstrom ............................ 1986-1987
F. G. Will ................................. 1987-1988
B. E. Deal ................................. 1988-1989
E. J. Cairns .............................. 1989-1990
W. L. Worrell ............................ 1992-1993
R. P. Frankenthal ........................ 1993-1994
J. A. Amick ............................... 1994-1995
D. W. Hess ................................. 1996-1997
B. Miller ................................. 1997-1998
G. M. Bloom .............................. 1998-1999
D. E. Hall ................................. 1999-2000
C. M. Osburn ............................. 2000-2001
J. Talbot ................................. 2001-2002
K. Spear ................................. 2002-2003
B. Scrosati ............................... 2003-2004
R. Susko ................................. 2004-2005
W. Smyrl ................................. 2005-2006
Mark Allendorf ......................... 2006-2007
Barry MacDougall ...................... 2007-2008
D. Noel Buckley ......................... 2008-2009

Past Secretaries of the Society

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

Past Treasurers of the Society

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

Annual Report
The Electrochemical Society Interface • Summer 2010

Edward Goodrich Acheson Award

E. G. Acheson .............................................1929
E. F. Northrup ...........................................1931
C. G. Fink ..................................................1933
F. J. Tone ....................................................1935
F. M. Becket ..............................................1937
F. C. Frary ..................................................1939
C. F. Burgess ............................................1942
W. Blum ....................................................1944
H. J. Creighton ..........................................1946
D. A. MacInnes ..........................................1948
G. W. Vinal ................................................1950
J. W. Marden ............................................1952
G. W. Helse ...............................................1954
R. M. Burns ..............................................1956
W. J. Kroll ...............................................1958
H. B. Linford .............................................1960
C. L. Faust ................................................1962
E. A. Gulbransen .........................................1964
W. C. Vosburgh ..........................................1966
F. L. LaQue ................................................1968
S. Ruben ....................................................1970
C. W. Tobias .............................................1972
C. V. King ................................................1974
N. B. Hannay ............................................1976
D. A. Vermilyea ..........................................1978
E. B. Yeager .............................................1980
H. C. Gatos ...............................................1982
H. C. Gatos ...............................................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
R. Parsons ............................................1979
I. M. Kohlhoff ...........................................1981
M. Cohen ................................................1983
M. Fleischmann .........................................1985
A. J. Bard ...............................................1987
B. E. Conway ..........................................1989
J. Newman .............................................1991
J.-M. Savéant .........................................1993
J. Kruger ...............................................1995
R. W. Murray ..........................................1997
J. B. Goodenough ......................................1999
N. Sato ....................................................2001
E. Gileadi .................................................2003
R. Rapp ....................................................2005
Sergio Trasatti ..........................................2007
Dieter M. Kolb .........................................2009

Olin Palladium Medal Award

(Formerly the Palladium Medal Award, 1951-1977)

C. W. Wagner ...........................................1951
N. H. Furman ...........................................1953
U. R. Evans .............................................1955
K. F. Bonhoeffer .......................................1957
A. N. Frumkin ..........................................1959
H. H. Uhlig ...............................................1961
H. 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
E. B. Yeager .............................................1992
L. T. Romankiw ....................................1994
R. Badoian ..............................................1996
W. G. Grot ...............................................1998
D. R. Turner ..........................................2000
R. C. Alkire .............................................2004
F. Mansfeld .............................................2006
John S. Newman ......................................2008

Vittorio de Nora Award in Electrochemical Engineering and Technology

(Formerly the Electrochemical Science and Technology Award, 1973-2005)

W. G. Pfann ............................................1973
H. C. Gatos .............................................1975
R. N. Hall ...............................................1977
M. B. Panish ...........................................1979
G. L. Pearson ..........................................1981
N. Holonyak, Jr. .......................................1983
J. M. Woodall ..........................................1985
A. Y. Cho .................................................1987
J. F. Gibbons ..........................................1989
J. D. Plummer ..........................................1991
B. E. Deal ...............................................1993
W. L. Worrell ..........................................1995
K. E. Spear .............................................1997
I. Akasaki ..............................................2001
A. Reisman .............................................2003
R. B. Fair ...............................................2005
D. Hess ....................................................2005
Tak H. Ning ............................................2007
C. Grant Willson ......................................2009

Carl Wagner Memorial Award

A. J. Bard .................................................1981
G. C. Wood .............................................1983
R. C. Alkire .............................................1985
R. W. Murray ..........................................1987
W. L. Worrell ..........................................1989
D. D. Macdonald ......................................1991
J. Jorné ....................................................1993
B. R. MacDougall ......................................1995
M. J. Weaver ..........................................1997
C. R. Martin ............................................1999
P. A. Kohl ...............................................2001
R. M. Crooks ..........................................2003
J. Hupp ....................................................2005
F. Mansfeld .............................................2006
Philip N. Bartlett ......................................2007
Henry S. White .........................................2009

Henry B. Linford Award for Distinguished Teaching

C. W. Tobias .............................................1982
B. E. Conway ..........................................1984
A. J. Bard .................................................1986
L. Brewer .................................................1988
J. Newman .............................................1990
K. Nobe ....................................................1992
J. O’M. Bockris .......................................1994
T. C. Franklin ..........................................1996
R. A. Rapp ..............................................1998
G. Stoner ...............................................2000
D. Peters ...............................................2002
R. M. Latanision .......................................2004
D. Pletcher ..............................................2006
Eliezer Gileadi .........................................2008

Charles W. Tobias Young Investor Award

Stuart B. Adler ......................................2004
Hock Min Ng ............................................2006
Yang Shao-Horn ......................................2008

[continues on next page]
Honorary Members

Charles F. Chandler ...........................................1919
Edgar F. Smith ...........................................1919
Carl Hering ...........................................1922
Edward G. Acheson ...........................................1923
Wilden D. Bancroft ...........................................1925
Edward Weston ...........................................1926
Thomas A. Edison ...........................................1928
W. Lash Miller ...........................................1929
Edward Dean Adams ...........................................1930
Charles F. Burgess ...........................................1932
Frederick M. Becket ...........................................1934
L. H. Baekeland ...........................................1936
Robert A. Witherspoon ...........................................1940
Archer E. Wheeler ...........................................1941
W.R. Whitney ...........................................1944
Paul J. Kruesi ...........................................1944
Colin G. Fink ...........................................1946
Oliver W. Brown ...........................................1946
John W. Marden ...........................................1947
William Blum ...........................................1953
Robert M. Burns ...........................................1959
George W. Heise ...........................................1959
Frank C. Mathers ...........................................1959
Stanislaus W. Wrzonowski ...........................................1962
Oliver W. Storey ...........................................1962
A. Kenneth Graham ...........................................1963
Howard A. Acheson ...........................................1971
Charles L. Faust ...........................................1971
Cecil V. King ...........................................1973
Herbert H. Uhlig ...........................................1973
Norman Hackerman ...........................................1973
Henry B. Linford ...........................................1974
Sherlock Swann ...........................................1974
Ernest G. Enck ...........................................1975
W. C. Gardner ...........................................1975
Ivor E. Campbell ...........................................1976
Ernest B. Yeager ...........................................1977
David A. Vermilyea ...........................................1977
Charles W. Tobias ...........................................1977
Harry C. Gatos ...........................................1978
Ralph M. Hunter ...........................................1979
Dennis R. Turner ...........................................1980
Henry F. Ivey ...........................................1980
Walter J. Hamer ...........................................1980
Michael J. Pryor ...........................................1981
Francis L. LaQue ...........................................1981
N. Bruce Hannay ...........................................1982
Theodore R. Beck ...........................................1982
Vittorio de Nora ...........................................1982
John L. Griffin ...........................................1983
Erik M. Pell ...........................................1983
Samuel Ruben ...........................................1983
Paul C. Milner ...........................................1986
Harold J. Read ...........................................1986
Forrest A. Trombore ...........................................1986
Douglas N. Bennion ...........................................1987
Ralph J. Brodd ...........................................1987
Jerome Kruger ...........................................1987
Glenn W. Cullen ...........................................1990
James C. Acheson ...........................................1990
Richard C. Aikire ...........................................1991
Bertram Schwartz ...........................................1991
J. Bruce Wagner, Jr ...........................................1991
V. H. Branney ...........................................1991
R. S. Karpinski ...........................................1996
F. J. Strieter ...........................................1996
W. L. Worrell ...........................................1996

Barry Miller ...........................................1999
Jefferson Cole ...........................................2001
L. Faulkner ...........................................2003
R. Frankenthal ...........................................2003
L. Romankiew ...........................................2003
Gordon E. Moore ...........................................2007
John S. Faxon ...........................................2007
Jerry M. Woodall ...........................................2007

Honorary Associate Members

Mrs. Colin G. Fink ...........................................1996

Fellows of The Electrochemical Society

Allen J. Bard ...........................................1990
Robert B. Calozzi ...........................................1990
Glenn W. Cullen ...........................................1990
Theodore I. Kamins ...........................................1990
Paul C. Milner ...........................................1990
Edward H. Nicollian ...........................................1990
Robert A. Osteryoung ...........................................1990
Arnold Reisman ...........................................1990
Lubomyr T. Romankiew ...........................................1990
Geraldine C. Schwartz ...........................................1990
Ben G. Streetman ...........................................1990
J. Bruce Wagner, Jr ...........................................1990
Theodore R. Beck ...........................................1991
Elton J. Cairns ...........................................1991
Bruce E. Deal ...........................................1991
Werner Kern ...........................................1991
William A. Pliskin ...........................................1991
Charles W. Tobias ...........................................1991
Rolf Weil ...........................................1991
Richard C. Aikire ...........................................1992
Vittorio de Nora ...........................................1992
Jerome Kruger ...........................................1992
Barry Miller ...........................................1992
Dennis R. Turner ...........................................1992
Jerry M. Woodall ...........................................1992
Richard P. Buck ...........................................1993
Larry J. Fisch ...........................................1993
Dennis W. Hess ...........................................1993
Vik-J. Kapoor ...........................................1993
Rolf H. Muller ...........................................1993
Carlton M. Osburn ...........................................1993
Robert A. Rapp ...........................................1993
George L. Schnable ...........................................1993
Y. H. Wong ...........................................1993
Petr Zuman ...........................................1993
George K. Celler ...........................................1994
Sung-Ne C. Chiu ...........................................1994
John P. Dismukes ...........................................1994
Richard B. Fair ...........................................1994
Adam Heller ...........................................1994
Richard A. Oriani ...........................................1994
Boone B. Owens ...........................................1994
Wayne L. Worrell ...........................................1994
Fred Anson ...........................................1995
Laurence D. Burke ...........................................1995
Brian E. Conway ...........................................1995
Robert P. Frankenthal ...........................................1995
Karl M. Kadish ...........................................1995
Digby D. Macdonald ...........................................1995
Gleb Mamantov ...........................................1995
Florian Mansfeld ...........................................1995
Royce W. Murray ...........................................1995
John Newman ...........................................1995
Yutaka Okinaka ...........................................1995
Howard W. Pickering ...........................................1995
George Rozgonyi ...........................................1995
Mordechay Schlesinger ...........................................1995
Karl E. Spear ...........................................1995
John M. Blocher, Jr ...........................................1996
Hans K. Böhm ...........................................1996
Der-Tau Chet ...........................................1996
Hugo Isaacs ...........................................1996
Wolfgang J. Lorenz ...........................................1996
S. J. Pearton ...........................................1996
Subhash C. Singhal ...........................................1996
Venkataraman Swamianthan ...........................................1996
James A. Amick ...........................................1997
Denis Noel Buckley ...........................................1997
Eliezer Gileadi ...........................................1997
Michel J. Froment ...........................................1997
Koji Hashimoto ...........................................1997
Chung-Chiu Liu ...........................................1997
Edward McCafferty ...........................................1997
Theodore D. Moustakas ...........................................1997
Shyam P. Muraka ...........................................1997
Stella W. Pang ...........................................1997
Joachim Walter Schultz ...........................................1997
James D. Sinclair ...........................................1997
Norman L. Weinberg ...........................................1997
Lawrence Young ...........................................1997
Huk Y. Cheh ...........................................1998
Donald E. Danly ...........................................1998
Dennis H. Evans ...........................................1998
Fumio Hine ...........................................1998
Dennis C. Johnson ...........................................1998
Zoltan Nagy ...........................................1998
Katsumi Niki ...........................................1998
Jun-ichi Nishizawa ...........................................1998
Fan Ren ...........................................1998
Antonio J. Ricco ...........................................1998
David A. Shores ...........................................1998
William H. Smyrl ...........................................1998
George Thompson ...........................................1998
Eric Brooman ...........................................1999
Stanley Bruckenstein ...........................................1999
Kathryn Bullock ...........................................1999
Shimshon Gottesfeld ...........................................1999
Yue Kuo ...........................................1999
Dieter Landolt ...........................................1999
Jerzy Ruzyillo ...........................................1999
Norio Sato ...........................................1999
Ralph White ...........................................1999
William Yen ...........................................1999
Cammy Abernathy ...........................................2000
KuzhikalaAli M. Abraham ...........................................2000
John C. Angus ...........................................2000
W. Ronald Fawcett ...........................................2000
David S. Ginley ...........................................2000
Yasuhiko Ito ...........................................2000
Howard Huffman ...........................................2000
Robert F. Savinell ...........................................2000
Roger Stahl ...........................................2000
Charles W. Struck ...........................................2000
Sergio Trasatti ...........................................2000
Dieter M. Kolb ...........................................2001
David J. Lockwood ...........................................2001
James McBrein ...........................................2001
Patrick J. Moran ...........................................2001
Shohei Nakahara ...........................................2001
William E. Grady ...........................................2001
Supramanian Srinivasan ...........................................2001
Mark Allendorf ...........................................2002
William Brown ...........................................1996
Fellows continued

Cor Claeyss.............. 2002
Martin Kendig........... 2002
Kim Kinoshita.......... 2002
Paul Kohl.............. 2002
Zempachi Ogumi........ 2002
Tetsuya Osaka......... 2002
Krishnan Rajeshwar... 2002
Israel Rubinstein..... 2002
Sigeru Torii........... 2002
Toshio Shibata........ 2002
Sorin Cristoelovanu... 2002
David Duquette........ 2003
Peter Fedkiw.......... 2003
Charles Hussey........ 2003
Richard McCrery....... 2003
Frank McLarnon........ 2003
Robin Susko............ 2003
Darrel Unterrecker... 2003
Osamu Yamamoto....... 2003
G. T. Burstein........ 2004
C. Clayton............ 2004
G. Davis.............. 2004
M. J. Deen............. 2004
S. Fonas............... 2004
M. Meyyappan........ 2004
J. F. Rusling......... 2004
M. Seo.................. 2004
M. Shur............... 2004
J. Simonet............ 2004
M. Stratmann........... 2004
T. T. Tabot........... 2004
M. S. Whittingham.... 2004
R. Adzic............... 2005
J. Davidsson.......... 2005
T. Hattori............. 2005
J. P. Leburton....... 2005
P. Marcus............. 2005
C. Martin.............. 2005
P. Natishan.......... 2005
D. Pletcher........... 2005
B. Scrosati........... 2005
J. Scully.............. 2005
R. Singh............... 2005
M. Stevenson......... 2005
M. Williams......... 2005
A. Baca.............. 2006
S. Bandypadhyay... 2006
T. Fahidy............. 2006
G. Frankel............ 2006
C. Jagadish.......... 2006
N. Koshida........... 2006
J. Lessard............ 2006
H. Massoud........... 2006
H. Yokokawa............ 2006
B. MacDougall........ 2006
M. Ozmen............... 2006
D. Misra............... 2006
A. Virkar.......... 2006
A. Wieckowski.... 2006
Simon S. Ang....... 2007
Viola Birss........ 2007
Marc Cahay........... 2007
Dennis G. Peters.... 2007
Daniel A. Scherson... 2007
Eric D. Wachsmann... 2007
Doron Aurbach...... 2008
Albert J. Fry.... 2008
Fernando Garzon.............. 2008
Yury Gogotsi.......... 2008
Curtis F. Holmes........ 2008
Prashant V. Kamat...... 2008
Patrik Schmuki.......... 2008
Gary R. Stafford....... 2008
Joseph R. Stetter...... 2008
John Stinek............ 2008
Thomas Thundat.......... 2008
Vladimir Bagotsky...... 2009
Ugo Bertocci.......... 2009
Manfred Engelhardt..... 2009
Tom Fuller............... 2009
Peter Hesketh......... 2009
Uziel Landau........... 2009
Dolf Landheer.......... 2009
Thomas P. Moffat........ 2009
Ikuko Nishiguchi....... 2009
Kohei Uosaki........ 2009
Edward G. Weston Summer Fellowship
(formerly the Edward G. Weston Fellowship, 1930-1945)

E. B. Sanigar........ 1930
K. Solliner........... 1931
M. E. Fogle............. 1932
R. D. Blue............. 1933
P. A. Jacquet.......... 1934
M. A. Coker............. 1935
H. B. Linford.......... 1936
G. L. R. Putnam........ 1937
V. de Nora............ 1938
W. P. Ruemmler........ 1940
R. E. Black........... 1941
W. E. Roake............ 1942
R. D. Misch........... 1947
M. T. Simnad........... 1948
R. L. Brubaker.......... 1961
D. Vohe.............. 1962
H. O. Daley, Jr.......... 1963
M. D. Hawley........... 1964
T. G. McCord........... 1965
J. D. McClanahan....... 1966
K. B. Prater............ 1967
K. Dobholfer........... 1968
L. R. Faulkner........ 1969
W. J. Horkans........ 1970
W. J. Horkans...... 1971
W. J. Bever........... 1972
B. J. Alexander......... 1973
S. S. Fratoni, Jr........ 1974
M. Suchanski........... 1975
R. J. Nowak........... 1976
P. A. Kohl........... 1977
C. J. Jaeger........... 1978
L. Bottomley........... 1979
G. L. McIntyre......... 1980
J. Pemberton........... 1981
M. E. Kordesch......... 1982
R. G. Tompsoon........ 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. Idriess........... 1994
D. Bizzotto........... 1995
L. A. Lyon........... 1996
C. Claypool........... 1997
B. Bath........... 1998
A. C. Templeton........ 1999
P. W. Wuefing........ 2000
K. Balas........... 2001
T. Hu........... 2002
J. Mauzeroll........... 2003
J. Seegmiller........... 2004
E. Blair........... 2005
F. Laforge........... 2006
Alex G. Güell.......... 2007
Matthew J. Banholzer........... 2008
Shuhei Chou........... 2009
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. Boneowitz........ 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. Pamidipati........ 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
(continued on next page)
Joseph W. Richards
Summer Fellowship
V. E. Hauser, Jr. 1960
M. J. Schaefer 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. Ballock 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. Iannielli 1982
D. F. Tessier 1983
N. T. Silleszynski 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

F. M. Becket Summer Fellowship
(formerly the F. M. Becket Memorial Award 1962-1999)
R. B. Johnson 1962
J. K. Johnstone 1964
K. Lehman 1966
H. K. Bowen 1967
T. E. Parker 1971
G. M. Crosbie 1973
N. A. Godshall 1975
J. D. Hodge 1977
W. Cheng 1979
P. Davies 1981
P. A. Barron 1983
G. J. Miller 1985
M. Rosenbluth 1987
J. D. Cotton 1989
J. Philibber 1991
P. Agarwala 1993
H. C. Slade 1995
K. S. Weil 1997
G. S. Hwang 1999
J. Parrish 2001
S. Wasielski 2002
E. Clark 2003
F. Deng 2004
S. Harrison 2005
Y. Yang 2006
Michael Orthner 2007
Marcos Jose Leitos Santos 2008
Steve Rhieu 2009
G. P. Conn 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. Hsu 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. H. 1997
M. E. Williams 1997
A. Zolfaghari 1997
C. R. Horne 1997
G. R. Jennings 1997
M. Zhao 1998
S. Sridaranu 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

The Electrochemical Society Interface • Summer 2010

Oronzo de Nora Industrial Electrochemistry Fellowship
N. Mano 2004
N. Mano 2005
N. Mano 2006
Vijayasekaran Boovaragan 2007
Vijayasekaran Boovaragan 2008
Vijayasekaran Boovaragan 2009

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. Letter 1939
J. S. Mackay 1940
E. Adler 1941
S. Speli 1942
Annual Report

Silver Level (10-24 years)
Elitech Systems Corp. 1983
Tronox LLC 1985
Giner, Inc. 1986
TIMCAL Graphite and Carbon Ltd. 1987
Japan Storage Battery Co., Ltd. 1988
3M Company 1989
E. I. Du Pont de Nemours & Co., Inc. 1990
Solartron Instruments 1990
Central Electrochemical Research Institute 1993
TDK Corp., R&D Center 1993
Valence Technology 1993
DAISO, Co., Ltd. 1994
Panasonic Crop. 1994
C. Uyemura & Co., Ltd., 1995
Central Research Lab. 1996
Electrolysis Co., Inc. 1996
FMC Corporation, Active Oxidants Division 1996
Nacional de Grafite, LTDA 1996
Permelec Electrode, Ltd. 1996
PPG Industries, Inc., Chemicals Group Technical Center 1996
Scribner Associates, Inc. 1996
Technic Inc. 1996
Advance Research Chemicals, Inc. 1998
Younger Center for Electrochemical Sciences at CWRU 1998
Teledyne Energy Systems, Inc. 1999
Quallion, LLC 2000
UTC Fuel Cells 2000
Bronze Level (5-9 years)
Hach Company, Radiometer Analytical Division 1998
De Nora Technologie Elettrochimica S.R.L. 1999
BAE Systems Battery Technology Center 2001
Brodarp of Nevada 2001
OM Group, Inc. 2001
GAIA-Akkumulatorenbere GmbH 2001
Permacast AB 2003
Agilent Laboratories 2004
Evonik Degussa GmbH 2004
Samsung SDSI 2004
LSW Center for Solar Energy & Hydrogen Research 2004
PEC North America 2004

Battery Division Student Research Award
J. R. Waggoner 1980
K. E. Yee 1980
W. A. van Schalkwijk 1981
C. Y. Mak 1986
T. I. Evans 1987
C. C. Streinz 1988
J. Weidner 1989
M. G. Lee 1990
E. J. Podlaha 1991
G. E. Gray 1992
D. Qu 1993
P. De Vidts 1994
S. Motupally 1995
J. Xu 1996
Y. Shaohorn 1997
I. Courtney 1998
G. E. Rousse 1999
V. Srivivasan 2000
M. Zhou 2001
V. Subramaniam 2001
L. Fransson 2002
K.-W. Park 2003
A. Weber 2004
C. Delacourt 2005
K. Kang 2006
Feng Ji 2007
Nongliak Meethong 2009

Battery Division Research Award
J. J. Lander 1958
D. M. Smyth 1959
T. P. Dinkse 1962
F. G. Will 1964
J. Burbank 1966
C. P. Wales 1966
D. Tuomi 1968
Y. Okinaka 1970
A. C. Simon 1972
S. M. Caulder 1972
J. McBreen 1974
T. Katan 1976
S. Szpak 1976
A. Heller 1978
K. R. Bullock 1980
R. A. Huggins 1982
D. Pakov 1984
G. H. J. Broers 1985
J. L. Devitt 1986
D. H. McClelland 1986
J. P. Gabano 1987
M. Armand 1988
J. Jorne 1989
A. N. Dey 1990
R. E. White 1991
D. N. Bennion 1992
E. Panted 1993
K. M. Abraham 1995
J. Dahn 1996
B. Scrosati 1997
C. Delmas 1999
J. B. Bates 2000
S. Wittingham 2002
K. Kinoshita 2003
J. Newman 2004
G. Ceder 2004
M. Thackeray 2005
T. Ohzuku 2006
Clare P. Grey 2007
Peter G. Bruce 2008
Linda Nazar 2009

Battery Division Technology Award
Y. Nishi 1994
K. Ozawa 1994
E. S. Takeuchi 1995
S. Gilman 1996
J.-M. Tarascon 1997
G. E. Blomgren 1998
A. Yoshino 1999
H. Y. Cheh 2000
B. B. Owens 2001
D. Wilkinson 2002
M. Winter 2002
J. Yamaki 2003
M. Yoshio 2003
M. Ue 2004
A. Durbach 2005
P. Novak 2005
K. Lee 2006
Michel Brousseley 2007
Hiroshi Inoue 2008
Satoshi Mizutani 2008
Eiji Endoh 2009

Corrosion Division H. H. Uhlig Award
M. Cohen 1973
D. A. Vermilyea 1975
J. Kruger 1977
M. J. Pryor 1979
T. R. Beck 1981
N. Sato 1983
P. Kozad 1985
H. W. Pickering 1987
R. P. Frankenthal 1989
H. Leidheiser 1991
H. Isaacs 1993
W. H. Smyrl 1995
M. J. Graham 1997
K. Hashimoto 1999
D. Macdonald 2001
F. Mansfeld 2002
C. Leygraf 2003
R. Newman 2004
P. Marcus 2005
O. T. Burstein 2006
Edward McCaffery 2007
Martin Stratmann 2008
John R. Scully 2009

Corrosion Division Morris Cohen Graduate Student Award
S. D. Scarberry 1986
C. C. Streinz 1987
R. Bianco 1988
M. A. Harper 1992
R. G. Buchheit 1993
J.-F. Yan 1994
B. V. Cockeram 1995
I. Odnevall 1996
D. G. Kolman 1997
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

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 Magnusson ...................................2008
John Stickney ......................................2009

Electronics and Photonics
Division Award

F. A. Trumbore ......................................1970
F. C. Pailitia .........................................1971
M. B. Panish .......................................1972
W. A. Pilskin ......................................1973
B. E. Deal ..........................................1974
H. M. Manasevit ..................................1975
M. G. Crawford ....................................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

Energy Technology Division
Research Award

M. W. Verbrugge ....................................1994
S. Srinivasan .......................................1996
H. R. Kunz ..........................................1996
A. W. Czanderna ..................................1999
R. Selman ..........................................2001
A. Nozik ............................................2003
K. Kinoshita .......................................2004
K. Kamamura .......................................2005
S. Licht ..............................................2006
Radoslav Adzic ....................................2007
Yang Kook Sun ....................................2007
Tom Fuller .........................................2008
Krishnan Rajeshwar ................................2009
Jai Prakash ..........................................2009

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

Sumio Iijima ........................................2008
Phaedon Avouris ..................................2009

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

Nikhil Koratkar ....................................2009

(continued on next page)
High Temperature Materials Division Outstanding Achievement Award

J. B. Wagner, Jr. ........................................ 1986
W. L. Worrell ........................................ 1988
R. A. Rapp ........................................... 1990
H. Schmalzried ..................................... 1992
S. C. Singhal ........................................ 1996
C. G. Vayenas ........................................ 1996
C. Bernard ........................................... 2001
H. Yokokawa ......................................... 2002
K. Spear ............................................... 2004
A. Virkar ............................................. 2006
David J. Young ..................................... 2008

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

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

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

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. S. 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
Prabee Barpanda .................................. 2009

Industrial Electrochemistry and Electrochemical Engineering Division Student Achievement Award

Y.-E. Sung .......................................... 1995
J. K. N. Mbinyo .................................. 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. AlNashif ......................................... 2004
V. Sethuraman ...................................... 2006
Minhua Shao ....................................... 2007
Vinten Dewikar ................................... 2008
Paul Albertus ...................................... 2009

Luminescence and Display Materials Division Centennial Award

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

Organic and Biological Electrochemistry Division Manuel Baizer Memorial Award

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

D. Evans ........................................... 2004
I. Nishiguchi ....................................... 2006
Albert Fry .......................................... 2008

Physical and Analytical Electrochemistry Division

David C. Grahame Award

F. C. Ansont .................................... 1983
J. Newman ......................................... 1985
A. Keller ........................................... 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. Abrúña .................................. 2009

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

M. Blander ........................................... 1987
G. P. Smith ......................................... 1990
R. A. Oster young .................................. 1992
G. Mamantov ...................................... 1994
N. Bjerrum ......................................... 1996
H. A. Ö ye ........................................... 1998
Y. Ito ................................................ 1999
G. N. Papatheodorou ............................. 2002
M. Gaune-Escard .................. 2004
J. Wilkes ........................................... 2006
Bernard Gilbert .......................... 2008

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