University of Maryland Chapter Visits Congress to Advocate for Stable Science R&D Funding

The ECS University of Maryland Student Chapter participated in the Science, Engineering, & Technology Congressional Visits Day (SET-CVD), which took place March 12-13, in Washington, DC. Ten student chapter members initiated meetings with Congress and staff members.

This visit by University of Maryland students to Capitol Hill continues a long tradition of ECS participation in the annual Congressional Visit Days. Senate and House leaders and staff like to hear about the needs and accomplishments of scientists, but even more so, they like to hear success stories from students. The ECS Maryland Student Chapter members carried a strong message to Washington: the ECS mission may be more relevant today than ever before.

Much of the research domain of ECS centers on energy and sustainability, with the activities of the Society and its members focusing on the need for improved power sources, core materials, clean water technologies, and information technology. Many of the Society’s research initiatives, including the ECS Electrochemical Energy Summit, the ECS Clean Water Technologies Symposium, and the upcoming Energy Water–Nexus Symposium (at the 224th ECS Meeting in San Francisco, October 2013), regularly bring scientists and policy makers together in a public forum to help further solutions to these worldwide challenges.

In preparation for their visit to SET-CVD, the students set up meetings with some of the most influential members of Congress on the Commerce, Science, & Transportation, the Energy & Natural Resources, and the relevant Appropriations committees to ensure that the ECS message was heard by members that can directly act on it. Chapter members had the opportunity to meet with legislators and staff from Maryland, as well as their home states, among them Senators Mark Udall (D-CO), Tom Harkin (D-IA), Chuck Grassley (R-IA), Elizabeth Warren (D-MA), Ben Cardin (D-MD), Barbara Mikulski (D-MD), and Pat Toomey (R-PA).

In addition to promoting the ECS mission, Student Chapter members discussed the benefits of the innovation ecosystem created through a combination of federal and private scientific research programs and the importance of stable and predictable federal funding, a timely issue after the Sequester that just went into effect and the looming spending cuts it entails. Additionally, the Chapter’s faculty advisor, Eric Wachsman, stressed the importance of science and energy policy, and the potential impact of the UMD Chapter on keeping legislators informed of the benefits of electrochemical energy.

ECS UMD Student Chapter members before meeting with Sen. Ben Cardin (D-MD).

ECS UMD Student Chapter Members Greg Hitz (left), Alex Kozen (second from left), and Ashley Lidie (far right) met with Sen. Elizabeth Warren (MA) (second from right) to discuss stability of science R&D funding.
technologies. Dr. Wachsman recently published an article entitled, “Role of Solid Oxide Fuel Cells in a Balanced Energy Strategy” in *Energy & Environmental Science*, and gave a number of energy policy oriented talks in DC region.

Roque Calvo, Executive Director of ECS; Betsy Houston of Federation of Materials Sciences; Dean Darryl Pines of UMD’s Clark School of Engineering, and; Bob Boege, organizer of SET-CVD, were instrumental in guiding the students, however, the enthusiasm and commitment of the students to science prevailed. For all but one student, it was the first time that they had taken part in a congressional visit, but all left with a newfound appreciation of the accessibility and willingness of the legislators and their staff to meet with constituents and to hear their concerns. Though brief, the meetings were a great opportunity to make contacts with legislators and their staff, and the UMD chapter members were able to offer assistance and information to congressional staff as well as grow their own network in the policy world.

Colin Gore, President of the UMD chapter, put it nicely when he said, “I know that though we don’t yet have the clout to make any big changes in the minds of the staffers we talked to, we as a group left with a changed perspective that will inform our positions and actions throughout the rest of our long careers in science and engineering. I’m glad that we were able to have this experience early on in our careers so that we have many decades to improve our relationship with our congressmen and women. I look forward to spreading this message to my peers at UMD, in ECS, and in the other professional spheres I go on to inhabit in the future.

For more information on participating on Science, Engineering, Technology Congressional Visits Day, visit setcvd.org.

**Highlights from CSTIC 2013**

ECS and SEMI are pleased to announce that the annual China Semiconductor Technology International Conference (CSTIC 2013) successfully concluded on March 18, 2013 in Shanghai, China with over 260 speakers and more than 700 attendees from around the world. The successful conclusion of CSTIC 2013 marked another milestone of this annual international conference. With a focus on semiconductor technology and manufacturing, CSTIC promoted technical exchanges on the latest developments in semiconductor technology and manufacturing and facilitated investment and collaboration in the semiconductor industry in Asia, particularly China.

CSTIC 2013 covered all aspects of semiconductor technology and manufacturing, including circuit design, devices, lithography, integration, materials, processes, and manufacturing, as well as emerging semiconductor technologies and silicon material applications. Hot topics, such as 3D integration, LEDs, and MEMs, were also included in the conference. Ivar Giaever (Nobel Laureate and Professor of Rensselaer Polytechnic Institute), Ghaevam Shahidi (IBM Fellow and Director of Silicon Technology at IBM Thomas J. Watson Research Center), and Peng Bai (Vice President, Technology and Manufacturing Group at Intel) delivered the keynote speeches at the conference plenary session. Over 130 other leading experts in semiconductor technology presented invited talks in the eleven parallel symposia.

Qinghuang Lin (IBM Thomas J. Watson Research Center), CSTIC 2013 Conference Chair, said “With the support of SEMI, ECS, and the dedicated volunteer service of more than 120 committee members, CSTIC has become an increasingly important and influential international conference on leading edge semiconductor technology and manufacturing.” Among the 308 accepted papers, about half of them were from the U.S., Europe, Japan, and Korea, while the other half were from China.

CSTIC 2013 was organized jointly by ECS and SEMI. More than 150 CSTIC 2013 papers were published in *ECS Transactions* in the ECS Digital Library after peer review by the conference committee members. Allen Lu (President of SEMI China) and D. Noel Buckley (Former President of ECS) gave opening speeches at the plenary session. ECS Executive Director Roque Calvo attended the conference.

CSTIC 2013 was co-organized by China’s High-Tech Expert Committee (CHTEC) and co-sponsored by IEEE-EDS, MRS, CEMIA, and CSE. It was supported by Shanghai Pudong Association for Science & Technology, Shanghai Pudong New Area Science & Technology Development Fund. About 20 industry companies provided financial support for this industrial semiconductor technology conference.

The Best Student Award winner was Tao Deng, Tsinghua University, China and the Best Young Engineer Award winner was Yingying Bai of Shanghai Huali Microelectronics, China; the awards were presented at CSTIC 2013.

CSTIC 2014 is scheduled to be held March 16-17, 2014 in Shanghai, China. More information about CSTIC is available at www.semiconchina.org/cstic.
ECS Employee Retires after 34 Years of Service

Ellen Tiano retired at the end of December after over 34 years of service to the Society. She had many important roles with ECS and became the longest serving employee in the Society’s 111 year history.

Her career with ECS began on February 21, 1978 when she was hired as a part-time Accounting Clerk. In 1980, Ellen was promoted to the full-time position of Computer Operator, and held that position until the end of 1991. At that time, she was promoted again to Information Systems Manager and worked in that position until the end of 1994 when her responsibilities shifted to a broader management role as Membership and Administration Manager. Ellen held this position until the end of 1999 when her title changed to Director of Membership and Administration. In 2004, Ellen resigned from full-time service and moved to Florida where she worked remotely on a part-time basis as Constituent Services Associate, through 2012.

ECS Executive Director Roque Calvo worked with Ellen Tiano for 30 years and had this to say about her retirement, “I’ve worked with Ellen for many years and in many different capacities, and she has always been a committed member of the staff and a major contributor to the growth and development of ECS. She had a mastery of our software management systems that we may never find again, but more importantly she has been a friend whose quiet support has been invaluable to me during my years as Executive Director. Ellen provided ECS with many years of loyal service and made numerous important contributions. She will be missed by the ECS staff and many members. On behalf of the Society’s Board of Directors I would like to thank her for all that she has done for ECS and offer her our best wishes in the future.”

Results of the 2013 Election of Officers and Slate of Officers for 2014

The ECS Tellers of Election have announced the results of the 2013 election of Society officers, with the following persons elected: President — Tetsuya Osaka, Waseda University; and Vice-President — Krishnan Rajeshwar, University of Texas at Arlington. The terms of Paul Kohl (Vice-President), Daniel Scherson (Vice-President), Hariklia Deligianni (Secretary), and Christina Bock (Treasurer) were unaffected by this election.

At the Board of Directors meeting in Toronto, ON, Canada on May 16, 2013, members of the Board voted to approve the slate of candidates recommended by the ECS Nominating Committee. The slate of candidates for the next election of ECS officers, to be held in January-March 2014, include: for President — Paul Kohl; for Vice-President (one to be elected) — Johna Leddy and Peter Fedkiw; and for Treasurer (one to be elected) — Enrico Traversa and E. J. Taylor. Full biographies and candidate statements will appear in the winter 2013 issue of Interface.

See the Society's ECS ANNUAL REPORT starting on page 91 in this issue.
New Division Officers

New officers for the 2013-2015 term have been elected for the following Divisions.

**Electronics and Photonics Division**

Chair  
Andrew Hoff, University of South Florida

Vice-Chair  
Mark Overberg, Sandia National Laboratories

2nd Vice-Chair  
Edward Stokes, University of North Carolina

Secretary  
Junichi Murota, Tohoku University

Treasurer  
Fan Ren, University of Florida

Members-at-Large  
Albert Baca, Sandia National Laboratories  
Helmut Baumgart, Old Dominion University  
D. Noel Buckley, University of Limerick  
George Celler, Rutgers University  
Cor Claeyts, IMEC  
Stefan De Gendt, IMEC  
M. Jamal Deen, McMaster University  
Manfred Engelhardt, Infineon Technologies AG  
Takeshi Hattori, Hattori Consulting International  
Hiroshi Iwai, Tokyo Institute of Technology  
Zia Karin, Aixtron Corporation  
Yue Kuo, Texas A&M University  
Qiliang Li, George Mason University  
Durgamadhab Misra, New Jersey Institute of Technology  
Suzuki Motofumi, Kyoto University  
Colm O’Dwyer, University Of Limerick  
Fred Roozeboom, Eindhoven University of Technology  
Jerzy Rzyfillo, Pennsylvania State University  
Krishna Shenai, Argonne National Laboratory  
Tadatomo Suga, University of Tokyo  
Ravi Todi, IBM Corp  
Yu-Lim Wang, National Tsing-Hua University

**Organic & Biological Electrochemistry Division**

Chair  
James Burgess, Case Western Reserve University

Vice-Chair  
Mekki Bayachou, Cleveland State University

Secretary/Treasurer  
Graham Cheek, US Naval Academy

Members-at-Large  
David Clift, Vanderbilt University  
Danjun Fang, Nanjing Medical University  
Toshio Fuchigami, Tokyo Institute of Technology  
Chang Ji, Texas State University-San Marcos  
Donal Leech, National University of Ireland Galway  
Flavio Maran, University of Padova  
Michael Mirkin, CUNY, Queens College  
Kevin Moeller, Washington University (St. Louis)  
Ikuzo Nishiguchi, Nagaoka University of Technology  
James F. Rusling, University of Connecticut  
Richard West, Case Western Reserve University

**Physical & Analytical Electrochemistry Division**

Chair  
Robert Mantz, Army Research Office

Vice-Chair  
Pawel Kulesza, University of Warsaw

Secretary  
Andrew Hillier, Iowa State University

Treasurer  
Alanah Fitch, Loyola University

Members-at-Large  
Plamen Atanasov, University of New Mexico  
Robert Calhoun, U.S. Naval Academy  
Wesley Henderson, North Carolina State University  
Gregory Jerkiewicz, Queen’s University  
Nicolas Mano, CRPP, Centre de Recherche Paul Pascal  
Alice Surowiec, Berry College  
Petr Vanysek, Northern Illinois University

**Energy Technology Division**

The Energy Technology Division will hold its election in June, 2013. The results will be published in the fall issue of Interface.
### Executive Committee of the Board of Directors

- Tetsuya Osaka, Chair ............................................. Spring 2014
- Paul Kohl .................................................. Senior Vice-President, Spring 2014
- Daniel Scherson ............................................. Second Vice-President, Spring 2015
- Krishnan Rajeshwar .................................... Third Vice-President, Spring 2016
- Hansika Delgenni .................................... Secretary, Spring 2016
- Christina Bock ................................................. Treasurer, Spring 2014

### Board of Directors, Presidential Appointment

- Stuart Swinton ................................................... Spring 2014

### Audit Committee

- Pete Fedewa, Chair ........................................... Spring 2014
- Petr Vanyšek .................................................. Spring 2014
- Paul Natishan .................................................. Spring 2015
- William Eggers .............................................. Spring 2016
- Stuart Swinton .................................................. Nonprofit Financial Professional, Spring 2014

### Education Committee

- Mark Ormaz, Chair ........................................... Spring 2017
- Vimal Chattanya Desai .................................. Spring 2014
- Jeff Long .......................................................... Spring 2014
- Randy Lesing .................................................. Spring 2015
- Chris Apple ...................................................... Spring 2015
- Kalpathy Sundaram ........................................ Spring 2016
- Jeffery Kolber .................................................. Spring 2016
- Douglas Hansen ............................................. Spring 2017
- A. Robert Hiltman .......................................... Spring 2017
- Krishnan Rajeshwar ................................ Third Vice-President, Spring 2014
- Kevin Rhodes ................................................... Chair, Individual Membership Committee, Spring 2016

### Ethical Standards Committee

- Fernando Garzon, Chair ................................ Immediate Past President, Spring 2014
- Jan Tabel .......................................................... Spring 2014
- John Luddy ....................................................... Spring 2015
- William Brown ............................................... Spring 2016
- Hansika Delgenni .................................... Secretary, Spring 2014

### Finance Committee

- Christina Bock, Chair .................................. Treasurer, Spring 2014
- Nancy Missert ............................................... Spring 2014
- Elizabeth Opalla ........................................... Spring 2014
- Peta Potting ...................................................... Spring 2015
- Plamen Atanassov .......................................... Spring 2015
- Paul Kohl ....................................................... Senior Vice-President, Spring 2014
- Hansika Delgenni .................................... Secretary, Spring 2014

### Honors and Awards Committee

- Peter Pintauro, Chair ........................................ Spring 2015
- Ralph White ..................................................... Spring 2014
- D. Noel Buckley ............................................. Spring 2014
- Francois D’Olive ............................................. Spring 2014
- Kalpathy Sundaram ........................................ Spring 2015
- Paul Natishan .................................................. Spring 2015
- Joseph Stetler .................................................. Spring 2015
- Jean St. Pierre .................................................. Spring 2015
- Durga Misra ...................................................... Spring 2015
- Masayoshi Watanabe .................................. Spring 2016
- Enrico Traverso .............................................. Spring 2017
- David Lockwood ............................................ Spring 2017
- Vijay Ramani .................................................... Spring 2017
- Tetsuya Osaka .................................................. President, Spring 2014

### Individual Membership Committee

- Kevin Rhodes, Chair ........................................ Spring 2016
- Sri Narayan ..................................................... Spring 2014
- Robert Savinelli ............................................ Spring 2014
- David (Picheng) Huang .................................. Spring 2015
- Parag Banerjee ................................................ Spring 2014
- Elizabeth Podha-Murphy ................................ Spring 2016
- Watan Sugimoto ........................................... Spring 2016
- Hansika Delgenni .................................... Secretary, Spring 2016

### Nominating Committee

- Fernando Garzon, Chair ................................ Immediate Past President, Spring 2014
- D. Noel Buckley ............................................. Spring 2014
- Subash Singhal ............................................. Spring 2014
- Dennis Hess ..................................................... Spring 2014
- Krishnan Rajeshwar .................................... Third Vice-President, Spring 2014

### Sponsorship Committee

- E. Jennings Taylor, Chair ................................ Spring 2014
- Rob Sides ....................................................... Spring 2014
- Michael Kubicko ........................................... Spring 2014
- Ana Londergan ................................................ Spring 2014
- William Eggers .............................................. Spring 2015
- William Brown .............................................. Spring 2015
- Paul Tiwey ....................................................... Spring 2015
- Bruno Scrosati ................................................ Spring 2015
- Yukinari Kobani ............................................. Spring 2016
- Sue-Sil Park ...................................................... Spring 2016
- Tetsuya Osaka .................................................. President, Spring 2014
- Christina Bock ................................................. Treasurer, Spring 2014
- Roque J. Calvo ............................................. ex officio-nonvoting, Term as Executive Director

### Technical Affairs Committee

- Paul Kohl, Chair ............................................ Senior Vice-President, Spring 2014
- Tetsuya Osaka .................................................. President, Spring 2014
- Fernando Garzon ............................................ Immediate Past President, Spring 2015
- Esther Takeuchi ............................................. 2nd Immediate Past President, Spring 2016
- Krishnan Rajeshwar .................................... Chair, Symposium Subcommittee, Spring 2014
- Daniel Scherson ............................................. Chair, Publications Subcommittee, Spring 2014
- Eric Washburn ............................................. Chair, New Technology Subcommittee, Spring 2016

### Tellers of Election

- Robert Comizoi, Chair .................................. Spring 2014
- Ronald Endres .............................................. Spring 2014
- William Ayers ................................................ Spring 2014
- Craig Arnold ..................................................... Spring 2014
- James Amick ..................................................... Spring 2014
- Norman Goldsmith ....................................... Spring 2014

### Ways and Means Committee

- Hansika Delgenni, Chair ................................ Secretary, Spring 2016
- Robert Glass ..................................................... Spring 2014
- Petr Vanyšek .................................................. Spring 2014
- Peter Eckl ....................................................... Spring 2015
- Adam Weber ..................................................... Spring 2015
- Paul Kohl ....................................................... Senior Vice-President, Spring 2014
- Daniel Scherson ............................................. Second Vice-President, Spring 2014

### Development Subcommittee of the Sponsorship Committee

- William Brown, Chair .................................. Spring 2014
- Bruno Scrosati ................................................ Spring 2014
- E. Jennings Taylor ........................................... Chair, Sponsorship Committee, Spring 2014
- Tetsuya Osaka .................................................. President, Spring 2014
- Roque J. Calvo ............................................. Executive Director, Term as ED
- Dan Patton ..................................................... Director of Development, Term as DO

### New Technology Subcommittee of the Technical Affairs Committee

- Eric Washburn, Chair .................................. High Temperature Materials Division, Spring 2016
- Hansika Delgenni .................................... Electrodeposition Division, Spring 2016
- Uwe Happik ..................................................... Luminescence and Display Materials Division, Spring 2014
- Rick Wise ..................................................... Electronics and Photonics Division, Spring 2014
- Xiao-Xiong Zhou ......................................... High Temperature Materials Division, Spring 2015
- Ana Londergan ............................................. Dielectric Science and Technology Division, Spring 2015
- Trung-Tuan Nguyen, Chair, Electrochemical Engineering Division, Spring 2015
- Michael Carter .............................................. Technical Subcommittees, Spring 2015
- Shelley Minteer ............................................. Physical and Analytical Electrochemistry Division, Spring 2015
- Arumugam Manthiram ...................................... Battery Division, Spring 2016
- Patrick Schunk ............................................ Corrosion Division, Spring 2016
- Isao Taniguchi ............................................. Organic and Biological Electrochemistry Division, Spring 2016
- Phaedra Avouris ............................................. Fullerene, Nanotubes, and Carbon Nanostructures Division, Spring 2016

### Publications Subcommittee

- Daniel Scherson, Chair .................................. Second Vice-President, Spring 2014
- Mary E. Yess ..................................................... Publisher, ECS Pub
- Robert Savinelli ............................................ EST Board Chair, 5/17/2017
- Dennis W. Hess ............................................. SSSST Board Chair, 12/31/2016
- Krishnan Rajeshwar .................................... Interface Editor, 12/31/2016
- Jeffrey Ferguson ........................................... ECS Transactions Editor, 12/31/2014
- Subhash Singhal ............................................ Spring 2014
- John Luddy ..................................................... Spring 2014
- Hubert G€attiger ............................................ Spring 2015
- James Fenton .................................................. Spring 2015
- Hansika Delgenni .................................... Secretary, Spring 2016

### Symposium Subcommittee

- Krishnan Rajeshwar, Chair ................................ Third Vice-President, Spring 2014
- Bor Yann Liaw ............................................. Chair, Battery Division, Fall 2014
- Shinji Fujimoto ............................................. Chair, Corrosion Division, Fall 2014
- Oana Leonte ..................................................... Chair, Dielectric Science and Technology Division, Fall 2014
- Giovanni Zangari ........................................... Chair, Electrodeposition Division, Fall 2013
- Andrew Hoff ..................................................... Chair, Electronics and Photonics Division, Spring 2015
- Adam Weber ..................................................... Chair, Energy Technology Division, Spring 2015
- Bruce Weisman ............................................. Chair, Fullerenes, Nanotubes, and Carbon Nanostructures Division, Spring 2014
- Jeffrey Ferguson ........................................... Chair, High Temperature Materials Division, Fall 2013
- Gerardina Botta ............................................. Chair, Industrial Electrochemistry and Electrochemical Engineering Division, Spring 2014
- John Collins ..................................................... Chair, Luminescence and Display Materials Division, Fall 2013
- James Burgess ............................................. Chair, Organic and Biological Electrochemistry Division, Spring 2015
- Rob Mante ..................................................... Chair, Physical and Analytical Electrochemistry Division, Spring 2015
- Michael Carter ............................................. Chair, Sensor Division, Fall 2014
- Eric Washburn ............................................. Chair, New Technology Subcommittee, Spring 2016

### Society Historian

- Zoltan Nagy ..................................................... Spring 2016

### Representatives to Other Societies

- American Association for the Advancement of Science  
  - Roque J. Calvo ............................................. Term as Executive Director

- Chemical Heritage Foundation  
  - Kathryn R. Bullock ..................................... Heritage Councilor, Spring 2014

- Federation of Materials Societies  
  - Peter Vanyšek ............................................. Trustee, Spring 2014
  - Roque J. Calvo ............................................. Advisory Board, Term as Executive Director

### National Inventors Hall of Fame

- Peter Fintauro ............................................. Chair, Honors & Awards Committee, Spring 2015
## ECS Division Contacts

<table>
<thead>
<tr>
<th>Division</th>
<th>Chair</th>
<th>Vice-Chair</th>
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<td>Christopher Johnson</td>
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<td>Pawel Kulesza</td>
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ECS Co-sponsored Conferences for 2013

In addition to the regular ECS biannual meetings, ECS, its Divisions, and Sections co-sponsor meetings and symposia of interest to the technical audience ECS serves. The following is a list of the co-sponsored meetings for 2013. Please visit the ECS website for a list of all co-sponsored meetings.

- **13th International Symposium on Solid Oxide Fuel Cells (SOFC-XIII)**, October 6-11, 2013 – Okinawa, Japan
- **28th Symposium on Microelectronics Technology and Devices (SBMicro 2013)**, September 16-19, 2013 — Curitiba, Brazil (Sponsored by ECS Electronics & Photonics Division)
- **New Processes and Materials Based on Electrochemical Concepts at the Microscopic Level (MicroEchem 2013)**, September 16-19, 2013 — Querétaro, Mexico
- **64th Annual Meeting of the International Society of Electrochemistry**, September 8-13, 2013 — Santiago de Querétaro, Mexico
- **EuroCVD 19**, September 1-6, 2013 — Varna, Bulgaria
- **Electrochem 2013**, September 1-3, 2013 — Southampton, UK
- **4th International Conference on Semiconductor Technology for Ultra Large Scale Integrated Circuits**, July 7-12, 2013 — Villard-de-Lans, France (Sponsored by ECS Electronics & Photonics Division)
- **4th International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems (IC4N)**, June 16-20, 2013 — Corfu, Greece

To learn more about what an ECS co-sponsorship could do for your conference, including information on publishing proceeding volumes for co-sponsored meetings, or to request an ECS co-sponsorship of your technical event, please contact ecs@electrochem.org.
In the NEXT issue of INTERFACE

• The work of the members of the ECS Fullerene, Nanotubes, and Carbon Nanostructures Division will be featured in the fall 2013 issue of Interface. Guest edited by R. Bruce Weisman, the issue on New Frontiers in Nanocarbons will feature a number of very interesting articles, including “The Revival of Fullerenes?” by Nazario Martin; “Carbon Onions and Their Electrochemical Applications,” by John K. McDonough and Yury Gogotsi of Drexel University; and “Discovering Properties of Nanocarbon Materials as a Pivot for Device Applications,” by Slava V. Rotkin and Tetyana Ignatova.

• The 224th ECS Meeting in San Francisco is offering a full complement of technical presentations, networking events, special keynote talks, and other events. A highlight of the fall 2013 meeting will be the Electrochemical Energy Summit (E2S) featuring the Water-Energy Nexus Symposium. Also of interest is a special symposium in honor of Adam Heller on the occasion of his 80th birthday.

• Tech Highlights continues to provide readers with free access to some of the most interesting papers published in the ECS journals, including articles from the Society’s newest journals: ECS Journal of Solid State Science and Technology, ECS Electrochemistry Letters, and ECS Solid State Letters.

• Don’t miss the next edition of Websites of Note which will focus on all the ECS websites: the new ECS Digital Library, the ECS home site, and Redcat.
websites of note
by Zoltan Nagy

Nanoelectrochemistry: Metal Nanoparticles, Nanoelectrodes, and Nanopores
A recent detailed review of nanoelectrochemistry: electrochemistry of metal nanoparticles; voltammetry of solutions of isolatable nanoparticles; electrochemistry of films of nanoparticles; electrochemistry at nanoscopic electrodes; and electrochemistry at single nanoparticles.

- R. W. Murray (UNC at Chapel Hill)

Electron Transfer in Functionalized Fullerenes
A considerable amount of work concerning systems in which C_{60} is an electron acceptor has been published. The fundamental principles behind fullerene donor-acceptor systems are revisited and the experimental methods available for the study of these systems is presented. Potential applications of photoinduced electron transfer systems. Intermolecular charge transfer complexes involving fullerenes.

- P. J. Bracher and D. I. Schuster (New York U.)

Electrochemistry of Carbon Nanotube Composite Electrodes
A new type of composite electrode based on the combination of carbon nanotubes and sol-gel technology is reported. This approach combines the advantages of sol-gel based ceramic materials with the favorable electrochemistry of carbon nanotubes. The characteristics of the designed electrodes are controlled by altering the nature (in terms of methyl, ethyl or propylerivedsilane precursor) or the amount of the sol used. The composite electrodes exhibit well-defined electrochemical properties with superior characteristics compare to other carbon based composite electrodes.

- L. G. Bachas (U. of Kentucky)

About the Author
Zoltan Nagy is a semi-retired electrochemist. After 15 years in a variety of electrochemical industrial research, he spent 30 years at Argonne National Laboratory carrying out research on electrode kinetics and surface electrochemistry. Presently he is at the Chemistry Department of the University of North Carolina at Chapel Hill. He welcomes suggestions for entries; send them to nagyz@email.unc.edu.

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