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

CS 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, materials, integration, 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), Ghavam 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



ECS Executive Director **ROQUE** CALVO (right) presented **TAO DENG** (left) with the Best Student Award at CSTIC 2013.

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 parttime 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."



Tetsuya Osaka President

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*.



Krishnan Rajeshwar Vice-President

See the Society's ECS ANNUAL REPORT





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 Claeys, 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 Ruzyllo, Pennsylvania State University Krishna Shenai, Argonne National Laboratory Tadatomo Suga, University of Tokyo Ravi Todi, IBM Corp Yu-Lim Wang, National Tsing-Hua University



The Energy Technology Division will hold its election in June, 2013. The results will be published in the fall issue of *Interface*.



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 Cliffel, 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

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 Atanassov, 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 Suroviec, Berry College Petr Vanýsek, Northern Illinois University

2013-2014 ECS Committees

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...Spring 2016

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Daniel Scherson	Chair, Publications Subcommittee, Spring 2014
Eric Wachsman	Chair, New Technology Subcommittee, Spring 2016
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Ronald Enstrom	Spring 2014
William Ayers	
Craig Arnold	Alternate, Spring 2014
Norman Goldsmith	Alternate, Spring 2014

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Ways and Means Committee

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Petr Vanýsek	Spring 2014
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Patrik Schmuki	
Isao Taniguchi	Organic and Biological Electrochemistry Division, Spring 2016
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Krishnan Rajeshwar	
Jeffrey Fergús	ECS Transactions Editor, 12/31/2014
Subhash Singhal	
Johna Leddy	Spring 2014
Hubert Gasteiger	Spring 2015
James Fenton	Spring 2015
Hariklia Deligianni	
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Symposium Subcommittee

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Krishnan Rajeshwar, Cha	air Third Vice-President, Spring 2014
	Chair, Battery Division, Fall 2014
Shinji Fujimoto	Chair, Corrosion Division, Fall 2014
Giovanni Zangari	Chair, Electrodeposition Division, Fall 2013
Andrew Hoff	
Adam Weber	Chair, Energy Technology Division, Spring 2015
Bruce Weisman	Chair, Fullerenes, Nanotubes, and Carbon Nanostructures Division, Spring 2014
Jeffrey Fergus	Chair, High Temperature Materials Division, Fall 2013
	r, 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
	Chair, Physical and Analytical Electrochemistry Division, Spring 2015
Michael Carter	
Eric Wachsman	Chair, New Technology Subcommittee, Spring 2016
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Society Historian Zoltan Nagy

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	Term as Executive Director
Chemical Heritage Foundation	
Kathryn R. Bullock	Heritage Councilor, Spring 2014
Federation of Materials Societies	0 1 0
Petr Vanýsek	Trustee, Spring 2014
	Advisory Board, Term as Executive Director
	,
National Inventors Hall of Fame	
Peter Pintauro	Chair, Honors & Awards Committee, Spring 2015

ECS Division Contacts



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Bryan Chin, Vice-Chair Nianqiang (Nick) Wu, Secretary

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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.



Mark your calendars NOW for the 224th ECS Meeting in San Francisco!

What you need to know ...

- The deadline for early-bird meeting registration is September 27, 2013.
- Reserve your stay at the Hilton San Francisco, the meeting headquarters hotel— Discount rates, starting at only \$179 are offered until September 27, 2013 or until the block sells out, whichever comes first.

ECS looks forward to MEETING you in San Francisco in October!

More meeting details: www.electrochem.org or e-mail meetings@electrochem.org



- The work of the members of the ECS Fullerenes, 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 nanopores.

- R. W. Murray (UNC at Chapel Hill)
- http://mccarley.chemistry.lsu.edu/Chemistry7750/F2009/Nanoelectrochemistry%20-%20Metal%20Nanoparticles%20 Nanoelectrodes%20and%20Nanopores%20(Royce%20W%20Murray).pdf

Electron Transfer in Functionalized Fullerenes

A considerable amount of work concerning systems in which C_{0} is an electron acceptor has been published. The fundamental principles behind fullerene donor-acceptor systems are revisited ⁶⁰ 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.)
- http://www.paulbracher.com/laboratory/pubs/pub0001.pdf

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 propylderivedsilane 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)
- http://acs.omnibooksonline.com/data/papers/2001_18.5.pdf

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.

Have you moved or are you planning to move?

Please take a moment to fill out this form with your updated contact information and return it to ECS. (The Electrochemical Society, 65 South Main Street, Building D, Pennington, NJ, 08534-2839, USA)	
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City	State/Province
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