

Congressional Visit Days 2011

by Petr Vanýsek



PETR VANÝSEK (right), ECS Trustee of FMS, and FMS President, presented the George Brown, Jr. Science-Engineering-Technology Award to Representative **DANIEL LIPINSKI** (left).

CONGRESSIONAL VISIT DAYS are traditional events, during which various organizations and groups visit offices of senators and congressmen on Capitol Hill. Having these events scheduled to several selected days in a year allows the congressional staff to free up their schedule, and it increases the impact of any messages, because of the large number of visitors. ECS participated this year in the two-day event organized by Material Advantage, a student program for materials science and engineering. ECS was involved through its affiliation with the Federation of Materials Societies, and **Petr Vanýsek**, a trustee of ECS to FMS and the current FMS President, was the delegate.

April 6, 2011 started with briefings by a budget panel, introduced by Kei Koizumi, Assistant Director for Federal R&D Office and Science & Technology Policy and Patrick Clemins, Director of AAAS R&D Budget and Policy Program. This budget briefing was two days before the possible shut down of the federal

government, which eventually did not happen, but the prospects were quite real that day. The proposed cuts to NSF, for example, were startling, and the participants certainly shared their concerns the next day with their legislative representatives. The highlight of the days was a reception in which the George Brown, Jr. Science-Engineering-Technology Award was given. This year recipients were Senator **Kay Bailey Hutchison** (R-TX) and Representative **Daniel Lipinski** (D-IL). Vanýsek, an Illinois resident, presented the award to Hon. Lipinski.

April 7, 2011 was a day full of scheduled visits. Because the visits are arranged by state residence, Vanýsek was visiting with legislative liaisons in offices of Illinois delegation. He visited the offices of Senators Durbin and Kirk and Representatives Schakowski and Hultgren. The message, in particular on the heels of the growing budget deficit, was that federally funded scientific research helps solve the United States' biggest challenge and that it is important to U.S. economy and competitiveness. This message is obvious to much of the ECS membership, whether in the U.S. or anywhere else in the world. But it needs to be repeated that democratic governance is that of many competing pressures and scientists and engineers, who often choose to work quietly, need to be heard by legislative bodies. In fact, the official NSF budget trim of 1%, announced a week after the visits, was less severe than what was projected at the briefing the previous week. It is possible that the collective voice of all the visitors had an impact.

The staff of the senators and congressmen like to hear about needs and accomplishments from scientists, but even more so, they like to hear success stories from students benefiting from federally funded research. With the next CVD happening in March or April 2012, it might be a good idea to look for some travel grants and plan to send graduate students to Washington. Those who participated at CVD in the past loved the experience and often come again; and when the up-and-coming scientists (and voters for years to come) are heard, we all can benefit. ■

ECS Welcomes New Staff



Anna Olsen

in which she has been a member since 1994.

Anna started her career in manufacturing at DeGussa Industries, Inc. where she was responsible for keeping the maintenance department stocked and within budget. After earning her degree and achieving her PA Teaching Certificate, she worked for ten years as a classroom teacher covering various grades for Nativity of Our Lord School in Warminster, PA. To further enhance her background in personnel management and staff development, she accepted a position as Coordinator of Religious Education for St. Eleanor Parish in Collegeville, PA then for Queen of Peace Parish in Ardsley, PA.

Looking for a change of pace but still keeping with not-for-profit organizations with a focus on education, Anna was intrigued by the objectives of ECS: to advance the theory and practice of electrochemistry and solid-state science, and to encourage research and dissemination of knowledge in these fields. Another draw was the involvement of ECS with Student Membership and the development of Student Chapters.

ECS Director of Constituent Services David Harkness said "Anna has been a valuable addition to the Constituent Services Department and has already elevated the level of service provided to ECS constituents. Her teaching experience is a great asset and she will be using these skills to help support and assist ECS Sections, Student Chapters, and the education program. We are very happy and fortunate to have Anna as a member of the ECS Constituent Services team."

ANNA OLSEN joined ECS last November as a Constituent Services Associate. She is responsible for making sure our members are well taken care of from processing meeting registrations, membership applications and renewals, to fulfilling book orders. Anna has earned a BA in elementary education from Holy Family University and holds a Professional Teaching Certificate for the State of Pennsylvania. She also is a Certified Adult Educational Trainer for the Girls Scouts of greater Philadelphia,



Karen Baliff Ornstein

"We are very excited to finally have a staff person dedicated to marketing and communications for the Society, and we are particularly pleased to have Karen take up that role," said Mary Yess, Deputy Executive Director. "In just a few short months, Karen has already learned a great deal about the Society, and has put her excellent ideas and hard work into play to the benefit of our organization."

Karen was the co-founder of a direct marketing agency that served the education and trade markets. Representing such clients as *Archeology Magazine* and HCI Books, the firm was presented with a Clarion award from the Association of Women in Communications for a multimedia campaign for *Zoobooks* that utilized print, radio, and television marketing strategies. Later, as Director of Marketing for HCI Books she conceived marketing and branding efforts for the successful *Chicken Soup for the Soul* series of books and promoted HCI's growing list of publications and professional conferences.

Upon relocating to New Jersey in 2002, Karen became the Marketing Director for Transaction Publishers. At Transaction she was responsible for promoting nearly one hundred social science books and journals each year through direct response and general advertising channels, conference planning, public relations efforts, and direct sales and marketing efforts.

Karen graduated from Rutgers University and holds an MS in education from Nova Southeastern University. She has a keen sense of the multiple challenges facing the public, private, and nonprofit sectors today and continues to embrace the changing marketing landscape and welcomes the new opportunities it brings.

KAREN BALIFF ORNSTEIN joined the staff of ECS in the newly-created role of Marketing Manager at the end of 2010. From her initial post in the production department of the Academic Press Journals Division to her most recent stint with Rutgers University Press, Karen has achieved a wealth of experience in all areas of publishing. She has developed and implemented marketing strategies for trade and scholarly publications, consumer and business-to-business books and newsletters, and community newspapers.

Results of the 2011 Election of Officers and Slate for 2012



Esther Takeuchi
President

The ECS Tellers of Election have announced the results of the 2011 election of Society officers, with the following elected: President—**Esther Takeuchi**, University at Buffalo SUNY; Vice-President; and **Paul Kohl**, Georgia Institute of Technology. The terms of **Fernando Garzon** (Vice-President), **Tetsuya Osaka** (Vice-President), **Christina Bock** (Treasurer) and **Johna Leddy** (Secretary) were unaffected by this election.

At the Board of Directors meeting in Montréal, Canada on May 5, 2011, members of the Board of Directors voted to approve the slate of candidates recommended by the ECS Nominating Committee. The slate of candidates for the next ECS election of officers, to be held in January 2012, include: for President—**Fernando Garzon**; for Vice-President (one to be elected)—**Daniel Scherson** and **Petr Vanýsek**; for Secretary (one to be elected)—**Hariklia (Lili) Deligianni** and **Curtis Holmes**. Full biographies and candidate statements will appear in the winter 2011 issue of *Interface*.



Paul Kohl
Vice-President

A Milestone at ECS Headquarters

by Petr Vanýsek

On Wednesday evening, as the Montréal meeting was moving happily along, and the organizers and staff were having a relaxing and deserved break, President Brown recognized **Mary Yess**, the Deputy Executive Director, for fifteen years of service to the Society. She received a framed scroll, artistically featuring the milestones of publications as they came to fruition during her tenure as the Director of Publications. With the scroll, she also received a warm round of applause from all present, who were quite surprised by this unscheduled announcement.

When the ECS staff plans a special event to celebrate an accomplishment of one of its own, a person central to this activity is usually Mary Yess with her many skills and professional touch. So how does one plan a surprise celebration for Mary Yess? With difficulties and only a few trusted souls involved, that is how.

Mary Yess made her first connection with the Society as a consultant in 1992, when she redesigned the prototype of *Interface* by developing the design and editorial structure. Mary's work at the University of Chicago Press provided excellent preparation for when she joined the ECS staff in 1996 as Head of Publications and Managing Editor for *Interface*. Mary was instrumental in the initiation of online manuscript submission and online journal publication of the Society's journals by the American Institute of Physics, and she was heavily involved in the launch of *Electrochemical and Solid-State Letters*. She initiated the ECS Digital Library and *ECS Transactions*. Presently, she coordinates the two major Society programs: publications and meetings. In 2004, she was named Deputy Executive Director of ECS.

Over the years, Mary has been involved in so many aspects of the Society's operations that she barely misses an out-of-place detail. So how did she not find out about the surprise event? Or did she? She certainly picked up a



Deputy Executive Director **MARY YESS** (right) received a scroll in recognition of her 15 years of service to the Society from ECS President **BILL BROWN** (left). (Photo by Petr Vanýsek)

few clues, but with a grace of her own, she let herself step into the celebration unprepared to enjoy the accolades, which all who know Mary Yess, recognize as most deserved. Mary, thank you for fifteen years of service to the Society and congratulations!

In the **NEXT** issue of **INTERFACE**

- **INTERFACE CHARACTERIZATION IN BATTERIES** is the featured topic in the fall 2011 issue, guest edited by **Robert Kostecki** and **Bor Yann Liaw**. Included will be articles on *in situ* X-ray spectroscopy and imaging of battery materials; *in situ* scanning probe microscopy of interfacial phenomena in batteries; electrode/electrolyte interface studies in lithium batteries using NMR; and *in situ* analytical electron microscopy for probing nanoscale electrochemistry.
- **SPECIAL SECTION ON THE FALL 2011 MEETING IN BOSTON...** The fall issue will contain a special section on the upcoming ECS meeting in Boston, MA, October 9-14. Included will be a preview of the first **Electrochemical Energy Summit**.
- **TECH HIGHLIGHTS** will continue to provide readers with free access to some of the most interesting papers published in the ECS journals.
- Don't miss the next edition of **WEBSITES OF NOTE** which gives readers a look at some little-known, but very useful sites.

Successful CSTIC 2011 in Shanghai



ECS sponsored student poster awards at the 2011 China Semiconductor Technology International Conference (CSTIC). Pictured from left to right are: **MIREIA BARGALLO GONZALEZ** (IMEC), award winner; **ROQUE CALVO**, ECS Executive Director; **DANDAN JIANG**, Chinese Academy of Sciences; **JUYUAN XU**, Chinese Academy of Sciences; **YUANQIAN JI** (Grace Semiconductor Manufacturing Corporation), award winner; and **HUA SU**, President of KLA-Tencor China.

ECs and SEMI announced that the annual **China Semiconductor Technology International Conference (CSTIC)** held on March 13-14, 2011 was a great success with a record number of 340 speakers and a record number of 741 attendees from around the world. **David Wang** (CEO and President of Semiconductor Manufacturing International Inc. (SMIC), China); **T. C. Chen** (IBM Fellow and Vice President of Science and Technology, USA); **Chenming Hu** (TSMC Distinguished Chair Professor of Microelectronics of University of California at Berkeley, USA); and **John Lau** (ITRI Fellow of Taiwan, China) delivered the keynote speeches at conference plenary session. One hundred thirty of the world's leading experts in semiconductor technology gave their keynote and invited speeches in the ten parallel symposia. The conference has become a world class event with ten symposia covering most of the aspects of semiconductor technology and emerging technology areas such as LEDs and photovoltaics.

Hanming Wu, CSTIC Conference Chair, Senior Director of SMIC said, "I am very happy to see that so many world's leading experts from industry and academia presented at the CSTIC conference. With this excellent platform, technical managers and engineers from SMIC, HHNEC, Huali, Grace Semiconductor, Samsung, Infineon, and professors and students from Peking University, Tsinghua University, Fudan University and others have the opportunity to have face-to-face communication with industry for leading edge technology and semiconductor manufacturing solutions." With the new record numbers of papers and attendees, CSTIC has become a world class technical event. Among the 340 papers, 28% of the papers were from the U.S., 15% of the papers were from Europe, 9% of the papers were from Japan; 36% of the papers were from China; and the rest were from other countries. Many of the papers were from leading fabrication plants, and equipment and materials companies like IBM, Intel, Toshiba, STMicro, IMEC, TSMC, Infineon, ASE, Flextronics, ARM, SMIC, Applied Materials, TEL, KLA-Tencor, and Dow Chemical.

Five solar industry executives from Daqo, GCL, LDK, Trina, and ASTROnergy joined the "Solar Silicon Materials - Opportunities and Challenges" panel discussion held on March 14 with more than 80 attendees. Technical experts in LEDs from Philips Lumiled, and others presented at an LED focus session and more than 70 attendees participated in a short course on "Fundamentals of High Power White LEDs" on March 14. Following SEMI member's step, CSTIC has successfully broadened its technical area into solar and LED industries.

As the largest semiconductor industry technology conference in China, CSTIC 2011 was organized jointly by ECS and SEMI. The 171 manuscripts passed critical review by a technical committee and have been published in *ECS Transactions*. Dr. Allen Lu, SEMI Vice-President and President of SEMI China, and Mr. Roque Calvo, Executive Director of ECS gave the opening speeches at the plenary session.

The 2011 conference was co-organized by China's High Tech Expert Committee (CHTEC), and co-sponsored by IEEE, CEMIA, MRS, and CSE. It was also supported by Shanghai Pudong Association for Science & Technology and the Shanghai Pudong New Area Science & Technology Development Fund. Fourteen industry companies led by KLA-Tencor sponsored this event.

Six students and young engineers won the ECS-SEMI Student & Engineer Awards (SESEA) at CSTIC 2011. They are **Mireia Bargallo Gonzalez** from IMEC, Belgium; **Dandan Jiang** from IMECAS, China; **Shiqiang Qin** from Peking University, China; **Nicolas Posseme** from CEA-Leti, France; **Jolly Zhao** from KLA-Tencor, U.S.; and **Yuanqian Ji** from Grace Semiconductor, China.

Qinghuang Lin, Sr. Scientist from IBM, will be the CSTIC 2012 conference chair. CSTIC 2012 will be held on March 18-19 in Shanghai. Papers are due September 30, 2011. ■

Division News

New Division Officers

New officers for a 2011-2013 term have been elected for the following Divisions.



Electronics & Photonics Division

Chair

Pablo Chang, Northrop Grumman

1st Vice-Chair

Andrew Hoff, University of South Florida

2nd Vice-Chair

Fan Ren, University of Florida

Secretary

Mark Overberg, Sandia National Laboratories

Treasurer

Ed Stokes, University of North Carolina, Charlotte

Members-at-Large

Albert Baca, Sandia National Laboratories

D. Noel Buckley, University of Limerick

George Celler, Rutgers University

Cor Claeys, IMEC

Sorin Cristoloveanu, IMEP-INPG-Minatec

Suman Datta, Pennsylvania State University

Jamal Deen, McMaster University

Stefan DeGendt, IMEC

Manfred Engelhardt, Infineon Technologies AG

Jennifer Gan, US Fuel Cell Council

Dennis Hess, Georgia Institute of Technology

Howard Huff, Sematech, Emeritus

Takeshi Hattori, Hattori Consulting International

Hiroshi Iwai, Tokyo Institute of Technology

Jeffrey Laroche

Qilang Li, George Mason University

Hisham Massoud, Duke University

Durgamadhab Misra, New Jersey Institute of Technology

Junichi Murota, Tohoku University

Colm O'Dwyer, University of Limerick

Gerald Oleszek, University of Colorado at Colorado Springs

Carl Osburn, North Carolina State University

Fred Roozeboom, Eindhoven University of Technology

George A. Rozgonyi, North Carolina State University

Jerzy Ruzyllo, Pennsylvania State University

Sumant Sood, Suss Microtec, Inc.

Tadatomo Suga, University of Tokyo

Ravi Todi, IBM Corporation

Masaharu Watanabe, SEZ Japan Inc.



Energy Technology Division

Chair

Jean St-Pierre, University of Hawaii at Manoa

Vice-Chair

Jeremy Meyers, University of Texas at Austin

Secretary

Adam Weber, Lawrence Berkeley National Laboratory

Treasurer

Scott Calabrese-Barton, Michigan State University



Organic & Biological Electrochemistry Division

Chair

Dennis Peters, Indiana University

Vice-Chair

James Burgess, Case Western Reserve University

Secretary/Treasurer

Mekki Bayachou of Cleveland State University

Members-at-Large

Toshio Fuchigami, Tokyo Institute of Technology

Christine Kranz, University of Ulm, Germany

Donal Leech, National University of Ireland Galway

Kevin Moeller, Washington University (St. Louis)

Ikuzo Nishiguchi, JST, Satellite Niigata

James F. Rusling, University of Connecticut

Hideo Tanaka, Okayama University



Physical & Analytical Electrochemistry Division

Chair

Shelley Minteer, Saint Louis University

Vice-Chair

Robert Mantz, Army Research Office

Secretary/Treasurer

Pawel Kulesza, University of Warsaw

Treasurer

Andrew Hillier, Iowa State University

Members-at-Large

Mark Anderson, University of Colorado, Denver

Plamen Atanassov, University of New Mexico

Robert Calhoun, U.S. Naval Academy

David Cliffl, Vanderbilt University

Alanah Fitch, Loyola University

Takashi Ito, Kansas State University

Alice Suroviec, Berry College

Petr Vanýsek, Northern Illinois University

ECS Division Contacts



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 Robert Kostecki, Secretary



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 Shinji Fujimoto, Vice-Chair R. Scott Lillard, Secretary/Treasurer



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 Hazara Rathore, Secretary



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Energy Technology

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 Jeremy Meyers, Vice-Chair Scott Calabrese Barton, Treasurer
 Adam Weber, Secretary



Fullerenes, Nanotubes, and Carbon Nanostructures

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 R. Bruce Weisman, Vice-Chair Francis D'Souza, Treasurer
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High Temperature Materials

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 Jeff W. Fergus, Sr. Vice-Chair Xiao-Dong Zhou, Secretary/Treasurer
 Timothy R. Armstrong, Jr. Vice-Chair



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 Holly A. Comanzo, Secretary/Treasurer



Organic and Biological Electrochemistry

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 Mekki Bayachou, Secretary/ Treasurer



Physical and Analytical Electrochemistry

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 Robert Mantz, Vice-Chair Andrew Hillier, Treasurer
 Pawel Kulesza, Secretary



Sensor

Zoraida Aguilar, Chair
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 Michael Carter, Vice-Chair Nianqiang (Nick) Wu, Treasurer
 Bryan Chin, Secretary

2011-2012 ECS Committees

Executive Committee of the Board of Directors

Esther Takeuchi, Chair	Spring 2012
Fernando Garzon	Senior Vice-President, Spring 2012
Tetsuya Osaka	Second Vice-President, Spring 2013
Paul Kohl	Third Vice-President, Spring 2014
Johna Leddy	Secretary, Spring 2012
Christina Bock	Treasurer, Spring 2014

Board of Directors, Presidential Appointment

Lloyd George	Spring 2012
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Audit Committee

Peter Fedkiw, Chair	Spring 2014
Rob Kelly	Spring 2012
John Susko	Spring 2013
Petr Vanýsek	Spring 2014
Lloyd George	Nonprofit Financial Professional, Spring 2012

Education Committee

Harikia Deligianni, Chair	Spring 2013
Daniel T. Schwartz	Spring 2012
Jeffrey Fergus	Spring 2012
Jeremy Meyers	Spring 2012
Al Barnes	Spring 2013
Vimal Chaitanya	Spring 2014
Jeff Long	Spring 2014
Randy Leising	Spring 2015
Chris Apblett	Spring 2015
Paul Kohl	Third Vice-President, Spring 2012
Al Masias	Chair, Individual Membership Committee, Spring 2013

Finance Committee

Christina Bock, Chair	Treasurer, Spring 2014
Curt Holmes	Spring 2012
Doug Hansen	Spring 2012
Vijay Ramani	Spring 2013
Pete Peterson	Spring 2013
Fernando Garzon	Senior Vice-President, Spring 2012
Johna Leddy	Secretary, Spring 2012

Honors and Awards Committee

Peter J. Hesketh, Chair	Spring 2012
Thomas P. Moffat	Spring 2012
Eric Wachsmann	Spring 2012
Krishnan Rajeshwar	Spring 2012
Harikia Deligianni	Spring 2013
Gerald Frankel	Spring 2013
Gerardine Botte	Spring 2013
Ralph White	Spring 2014
D. Noel Buckley	Spring 2014
Richard Alkire	Spring 2014
Kalpathy Sundaram	Spring 2015
Paul Natishan	Spring 2015
Peter Pintaro	Spring 2015
Esther Takeuchi	President, Spring 2012

Individual Membership Committee

Alvaro Masias, Chair	Spring 2013
Janine Mauzeroll	Spring 2012
Walter van Schalkwijk	Spring 2012
Rick Wise	Spring 2013
Scott Lillard	Spring 2013
Robert Savinell	Spring 2014
Sri Narayan	Spring 2014
Johna Leddy	Secretary, Spring 2012

Nominating Committee

William Brown, Chair	Immediate Past President, Spring 2012
Robin Susko	Spring 2012
Dennis Hess	Spring 2012
D. Noel Buckley	Spring 2012
Paul Kohl	Third Vice-President, Spring 2012

Society Meeting Committee

Jean St-Pierre, Chair	Spring 2012
Chris Apblett	Spring 2012
Nancy Missert	Spring 2013
Robert Glass	Spring 2014
Johna Leddy	Secretary, Spring 2012
Christina Bock	Treasurer, Spring 2014
Roque J. Calvo	ex officio-nonvoting, Term as Executive Director

Sponsorship Committee

E. Jennings Taylor, Chair	Spring 2013
William Eggers	Spring 2012
Gautam Pillay	Spring 2012
Joel M. Zazyczny	Spring 2012
Viola Birss	Spring 2013
Hubert Gastleiger	Spring 2013
Luis F. Garfias-Mesias	Spring 2013
Jean St-Pierre	Spring 2013
Michael Kubicko	Spring 2014
Rob Sides	Spring 2014
Christina Bock	Treasurer, Spring 2014
Roque J. Calvo	ex officio-nonvoting, Term as Executive Director

Technical Affairs Committee

Fernando Garzon, Chair	Senior Vice-President, Spring 2012
Chih-Pang (Pablo) Chang	Spring 2012
Alok Srivastava	Spring 2012
David Lockwood	Spring 2013
Rangachary Mukundan	Spring 2013
Durga Misra	Spring 2014
Joe Stetter	Spring 2014
Esther Takeuchi	President, Spring 2012
William Brown	Immediate Past President, Spring 2012
Paul Natishan	2nd Immediate Past President, Spring 2012
Paul Kohl	Chair, Symposium Subcommittee, Spring 2012
Tetsuya Osaka	Chair, Publications Subcommittee, Spring 2012
Elias Greenbaum	Chair, New Technology Subcommittee, Spring 2013

Tellers of Election

James Amick, Chair	Spring 2012
Robert Comizzoli	Spring 2012
Norman Goldsmith	Spring 2012
Craig Arnold	Alternate, Spring 2012
William Ayers	Alternate, Spring 2012
Ronald Enstrom	Alternate, Spring 2012

Ways and Means Committee

Johna Leddy, Chair	Secretary, Spring 2012
John Flake	Spring 2012
Dennis Hess	Spring 2012
Nancy Dudney	Spring 2013
Peter Pintaro	Spring 2013
Fernando Garzon	Senior Vice-President, Spring 2012
Tetsuya Osaka	Second Vice-President, Spring 2012

New Technology Subcommittee

Elias Greenbaum, Chair	Energy Technology Division, Spring 2013
Maria Inman	Electrodeposition Division, Spring 2012
Michael Root	Battery Division, Spring 2012
Francis D'Souza	Fullerenes, Nanotubes, and Carbon Nanostructures Division, Spring 2012
Gessie Brisard	Physical and Analytical Electrochemistry Division, Spring 2012
Huyen Ngoc Dinh	Energy Technology Division, Spring 2013
Earl William Mustain	Energy Technology Division, Spring 2013
Rachid Yazami	Battery Division, Spring 2013
Jim Burgess	Organic and Biological Electrochemistry Division, Spring 2013
Uwe Happek	Luminescence and Display Materials Division, Spring 2014
Rick Wise	Electronics and Photonics Division, Spring 2014
Xiao-Dong Zhou	High Temperature Materials Division, Spring 2014
Ana Londergan	Dielectric Science and Technology Division, Spring 2014

Publications Subcommittee

Tetsuya Osaka, Chair	Second Vice-President, Spring 2012
Andrew Lin	Spring 2012
Hiroshi Nishihara	Spring 2012
Andrea Russell	Spring 2012
Enrico Traversa	Spring 2012
Alanah Fitch	Spring 2013
Don Roeper	Spring 2013
Jerzy Ruzyllo	Spring 2014
Subhash C. Singhal	Spring 2014
Daniel Scherson	EST Board Chair to 12/31/2012
Krishnan Rajeshwar	Interface Editor to 5/31/2013
Dennis W. Hess	SSST Board Chair to 12/31/2013
John Weidner	ECS Transactions Editor to 12/31/2012
Mary E. Yess	Term as Publisher

Symposium Subcommittee

Paul Kohl, Chair	Third Vice President, Spring 2012
Arumugam Manthiram	Chair, Battery Division, Fall 2012
Doug Hansen	Chair, Corrosion Division, Fall 2012
Kalpathy Sundaram	Chair, Dielectric Science and Technology Division, Spring 2012
Christian Bonhôte	Chair, Electrodeposition Division, Fall 2011
Pablo Chang	Chair, Electronics and Photonics Division, Spring 2013
Jean St-Pierre	Chair, Energy Technology Division, Spring 2013
Dirk Guldí	Chair, Fullerenes, Nanotubes, and Carbon Nanostructures Division, Spring 2012
Enrico Traversa	Chair, High Temperature Materials Division, Fall 2011
Vijay Ramani	Chair, Industrial Electrochemistry and Electrochemical Engineering Division, Spring 2012
Kailash Mishra	Chair, Luminescence and Display Materials Division, Fall 2011
Dennis Peters	Chair, Organic and Biological Electrochemistry Division, Spring 2013
Shelley Minter	Chair, Physical and Analytical Electrochemistry Division, Spring 2013
Zoraida Aguilar	Chair, Sensor Division, Fall 2012
Elias Greenbaum	Chair, New Technology Subcommittee, Spring 2013

Society Historian

Forrest A. Trumbore	Spring 2013
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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 2013
Federation of Materials Societies	
Petr Vanýsek	Trustee, Spring 2012
Patrick Moran	Alternate, Spring 2012
Roque J. Calvo	Advisory Board, Term as Executive Director
National Inventors Hall of Fame	
Peter Hesketh	Chair, Honors & Awards Committee, Spring 2012



websites of note

by Zoltan Nagy

History of Electrodeposition

Some of the very early papers describing the discovery of electroplating in various forms can be found at this site. Several papers reported rough (dendritic/mossy) electrodeposition of metals almost immediately after Volta's discovery of the "pile." The first ones were probably Nicholson and Carlisle, and independently, Cruickshank. The first real electroplating, gold plating of coins, was reported soon thereafter by Brugnatelli. Decades later, the discovery of "electroforming or electrotyping" was reported independently by De la Rue and Jacobi.

- Ernest B. Yeager Center for Electrochemical Sciences (YCES)
- <http://electrochem.cwru.edu/estir/history.htm>

Electroplating

A book chapter on electroplating, describing the basic electrochemistry background, surface preparation, direct current electrodeposition, pulse plating, laser-induced metal deposition. Types of electroplating processes: mass plating, rack plating, continuous plating, in-line plating. Types of metal coatings: sacrificial coatings, decorative protective coatings, engineering coatings, minor metal coating, unusual metal coating, alloy coatings, multilayered coatings, composite coatings, conversion coatings, anodized coatings. Related processes: electroless deposition (autocatalytic plating), immersion plating, electroforming.

- H. Lou (U. Lamar, Beaumont, TX) and Y. Huang (Wayne State U., Detroit, MI)
- http://chem1.eng.wayne.edu/~yhuang/Papers/Book_Plating_ECHP.pdf

Application Notes

A large collection of application notes, including galvanostatic and potentiostatic techniques, impedance spectroscopy, corrosion measurements, testing of batteries, fuel cells, supercapacitors, etc.; handbook of electrochemical impedance spectroscopy; interactive transfer function library; interactive equivalent circuit library; and interactive faradaic impedance library.

- Bio-Logic USA
- <http://www.bio-logic.info/potentiostat/notes.html#an>

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 nagy@email.unc.edu.

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