

## ECS Sponsors CSTIC Meeting in China



ECS provided three travel grants that were awarded to the best poster presentations at the CSTIC 2010 meeting in Shanghai. From left to right are: **HANMING WU**, Conference Chair; **ABUDUREHMAN ABUDUKELIMU**, Tokyo Institute of Technology, 3<sup>rd</sup> place; **YUE KUO**, ECS Board member; **LIJIE ZHAN**, Peking University, 2<sup>nd</sup> place; **TIANCHUN YE**, Director, Institute of Microelectronics of the Chinese Academy of Sciences (IMECAS); and **LILI MA**, University of Electronic Science and Technology of China, 1<sup>st</sup> place.

The 2010 edition of the annual China Semiconductor Technology International Conference (CSTIC), held on March 18-19, 2010, was a great success. As a major semiconductor technology conference in China, CSTIC is organized jointly by ECS and SEMI ([www.semi.org](http://www.semi.org)). The joined strength of these two major world organizations has provided a consistent operational support for the conference.

There were 711 attendees and 310 speakers from around the world. Dan Martin, EVP of SEMI; Yue Kuo, ECS Board of Directors; and Mr. Tianchun Ye, IMECAS, gave the opening speeches at the conference plenary session. Stuart Parkin, IBM Fellow; Yan Borodovsky, Intel Senior Fellow; and T. P. Ma, the Director of the Yale Center for Microelectronics, Yale University, delivered the keynote speeches at the conference plenary session. Nearly 100 of the world's leading experts were invited to give keynote or invited speeches in each symposium. The CSTIC conference has become a world-class event with nine symposia covering most aspects of semiconductor manufacturing technology and emerging areas, including MEMS, LEDs, and photovoltaics.

Six students and young engineers won the Student and Engineer Awards (SESEA) at CSTIC 2010. The Student Awards are funded by ECS and enable the winners to travel to an ECS meeting to present their work. The winners of the SESEA awards are Lili Ma from the University of Electronic Science and Technology of China, Maxime Darnon from CNRS-LTM, Lijie Zhang from Peking University, Yonggen He from SMIC, Abudurehman Abudukelimu from the Tokyo Institute of Technology, and Younghun Kwon from Samsung.

CSTIC Conference Chair Hanming Wu (R&D Director of SMIC) said, "I am very happy to see so many of the world's leading experts from industry and academia at this CSTIC conference. With this excellent platform, managers and engineers from local companies and professors at leading universities, including SMIC, HHNEC, GSMC, Samsung, Sandisk, Peking University, Fudan University and more have the opportunities for face-to-face communication with the industry for leading edge technology and manufacturing solutions."

With a record number of submitted papers and attendees, CSTIC has become a world-class technical event. Of the submitted papers, 33% were from the

U.S., 8% from Europe, 4% from Japan, and 41% from China. There were speakers from leading fabs, equipment, and materials companies, including IBM, Intel, Samsung, TSMC, Infineon, Micron, SMIC, Applied Materials, TEL, KLA-Tencor, and Dow Chemical. Speakers from leading universities (Harvard, MIT, UC Berkeley, Stanford, Yale, IMEC, Tsinghua University, and Peking University) also presented during the conference and participated in discussions with attendees.

ECS publishes the conference proceedings, and 190 manuscripts from CSTIC 2010 have passed critical review by the conference technical committee and have been published in *ECS Transactions* (<http://ecsd.org/ECST/>). SEMI manages conference operation including finance, communication and logistics.

The 2010 CSTIC conference was co-organized by China's High Tech Expert Committee (CHTEC), and sponsored by IEEE, CEMIA, and CSE. It is also supported by the Shanghai Pudong Association for Science and Technology and the Shanghai Pudong New Area Science and Technology Development Fund.

The 2011 CSTIC conference is scheduled to be held in March 2011 in Shanghai.

## Energy Technology Division Awards Presented



**KARIM ZAGHIB** (3<sup>rd</sup> from left) and **JOHN WEIDNER** (4<sup>th</sup> from left) were presented with the 2010 Energy Technology Division Research Awards for encouraging excellence in energy related research. On hand to congratulate them were the officers of the Division: **JEAN ST-PIERRE** (far left, Vice-Chair), **SRI NARAYAN** (2<sup>nd</sup> from left, Chair), **ADAM WEBER** (5<sup>th</sup> from left, Treasurer), and **JEREMY MEYERS** (far right, Secretary).



**PETR VANÝSEK** represented ECS at the Congressional Visit Days on April 29. Prof. Vanýsek met with Senator **DICK DURBIN**, Democrat from Illinois and also the Senate Majority Whip.

## Congressional Visit Days 2010

by Petr Vanýsek

Durbin and Representative Foster. The delegation visits are arranged by the hometown of the visitors, therefore Petr Vanýsek, Professor from Northern Illinois University, visited the legislators from Illinois.

Thirty-nine people, including student advisors, but mostly graduate students from several universities, participated at this two-day event. The first day was connected with a reception, Laser Fest, a celebration 50 years of invention of the laser, and an award ceremony in which congressmen Ralph Hall (R-TX) and David Wu (D-OR) received the George E. Brown Jr. Science-Engineering-Technology Leadership Award.

The message the participants were bringing to the legislative office was to fully support the America COMPETES Reauthorization Act of 2010, which was scheduled to be on the House agenda by May 12. The COMPETES Act (Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science) would provide a five-year

authorization of funding at \$86 billion for the National Science Foundation, the Department of Energy's Office of Science, and the National Institute of Standards and Technology, to provide for Science, Technology, Engineering and Mathematics (STEM) educational programs.

The students were participating mostly through a student organization called the Materials Advantage Student Program, affiliates of ACerS (American Ceramics Society), AIST (Association for Iron & Steel Technology), ASM International, and TMS (The Minerals, Metals and Materials Society). These societies, together with ECS and several other societies are affiliate members of FMS, which serves as an umbrella organization for material societies and a clearinghouse between materials professionals and among its diverse constituent societies concerning their current activities, best practices, and the opportunities and problems cutting across specific materials and materials societies. ■

This year the Congressional Visit Days, in which ECS took place through its affiliation with the Federation of Materials Societies (FMA), took place on Capitol Hill on April 28 and 29. ECS was represented on the Hill by its FMS trustee Petr Vanýsek. Vanýsek made several visits to legislative offices, namely the office of Senator



## websites of note

by Zoltan Nagy

### The Internet Archive of Old Books and Journals

"The Internet Archive" is building a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, it provides free access to researchers, historians, scholars, and the general public. Among the collections is "The Open Library," working to create a Web page for every book ever published, however, only in the absence of copyright restrictions, thereby limiting the collection to old books and journals. This site seems to concentrate on, but is not limited to, publications in English.

- Open-Access Text Archive
- <http://www.archive.org/details/texts>

### European Digital Library

There is a similar project also in Europe, provided by "La Bibliothèque nationale de France." This site seems to concentrate on, but is not limited to, French publications. This and the previous site are both fully searchable and the books and journals can be read on-line or downloaded in PDF format.

- Gallica Digital Library
- <http://gallica.bnf.fr/?lang=en>

### Old Electrochemistry Books Published in English

If you are looking for old electrochemistry books, you do not have to dig through the above sites; all the searching has already been done for you. The links are available at ESTIR in chronological order (or searchable by keywords) covering more than one hundred years, up to some books from the 1920s.

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

### 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](mailto:nagy@email.unc.edu).



William D. Brown  
President

## Results of the 2010 Election of Officers and Slate for 2011

The ECS Tellers of Election have announced the results of the 2010 election of Society officers, with the following elected: President—William D. Brown, University of Arkansas; Vice-President—Tetsuya Osaka, Waseda University; and Treasurer—Christina Bock, National Research Council of Canada. The terms of Esther Takeuchi (Vice-President), Fernando Garzon (Vice-President), and Johna Leddy (Secretary) were unaffected by this election.

At the Board of Directors meeting in Vancouver, Canada on April 29, 2010, 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 2011, include: for President—Esther Takeuchi; for Vice-President (one to be elected)—Paul Kohl and Krishnan Rajeshwar. Full biographies and candidate statements will appear in the winter 2010 issue of *Interface*.



Tetsuya Osaka  
Vice-President



Christina Bock  
Treasurer

## ECS Cosponsored Conferences for 2010

*In addition to the regular ECS biannual meetings, ECS, its Divisions, and Sections cosponsor meetings and symposia of interest to the technical audience ECS serves. The following is a list of the cosponsored meetings for 2010. Please visit the ECS website for a list of all co-sponsored meetings.*

- **XXV Congress of the Mexican Society of Electrochemistry -and- 3<sup>rd</sup> Meeting of the ECS Mexican Section**, May 31-June 4, 2010, Zacatecas, Mexico, [smeq.reduaz.mx/congreso/](http://smeq.reduaz.mx/congreso/)
- **International Conference on Electrified Interfaces**, June 20-25, 2010, Geneva, New York, USA, [icei2010.com/](http://icei2010.com/)
- **IMLB 2010: 15<sup>th</sup> International Meeting on Lithium Batteries**, June 27-July 2, 2010, Montréal, Canada, [www.imlb.org](http://www.imlb.org)
- **25<sup>th</sup> Symposium on Microelectronics Technology and Devices (SBMicro 2010)**, September 6-9, 2010, Sao Paolo, Brazil, [www.lsi.usp.br/chipinsampa/](http://www.lsi.usp.br/chipinsampa/)
- **11<sup>th</sup> International Conference on Advanced Batteries and Accumulations**, September 19-23, 2010, Czech Republic
- **61<sup>st</sup> Annual Meeting of the International Society of Electrochemistry (ISE)**, September 26-October 1, 2010, Nice, France, [event10.ise-online.org/](http://event10.ise-online.org/)
- **Fuel Cell Seminar & Exposition**, October 18-21, 2010, San Antonio, Texas, USA, [www.fuelcellseminar.com](http://www.fuelcellseminar.com)

*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](mailto:ecs@electrochem.org).*

2010

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

- **ECS RETURNS TO LAS VEGAS...** The fall 2010 issue will feature the Special Meeting Section on the 218<sup>th</sup> ECS meeting in Las Vegas, Nevada (October 10-15). You can bet that the technical program will be excellent and that there will be plenty to see and do in your free time.
- The fall issue will be an extremely timely one on **LARGE SCALE ENERGY STORAGE NEEDS FOR THE SMART GRID**, and will be guest edited by Jeremy Meyers (The University of Texas at Austin).
- **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 useful sites.