AVS Newsletter

AVS Newsletter **Summer 2010**

President's Report

By David G. Castner, 2010 AVS President

I had the privilege of attending the Science and Engineering Congressional Visit Day (CVD) on April 29, 2010, in Washington, D.C. This was the first time I attended CVD and I was pleased to see the congressional staffers we met were receptive to our requests for support of STEM (Science, Technology, Engineering, and Math) and R&D funding issues. Rudy Ludeke provides further details and pictures from CVD 2010 in a separate article on page 4.

In addition to meeting with the congressional staffers we also had a chance to meet with our current Congressional Science Fellow, Marcos Huerta. See page 3 for an announcement of our new Congressional Science Fellow for 2010-2011, Christopher Spitzer. We look forward to meeting Christopher at the AVS International Symposium and Exhibition and the December Board of Directors meeting.

In the last *AVS Newsletter* I talked about AVS publications (*JVST A, JVST B,* Biointer*phases,* and *Surface Science Spectra)* and indicated some of the changes we were in the process of making. Excellent progress is being made in the implementation of these changes. *JVST A, JVST B* and *Surface Science Spectra* have new journal covers. New websites using the AIP C3 platform are scheduled to go online in late June. Likewise, we are on schedule to transition to the AIP Peer X-Press in mid-summer. This platform will provide full electronic submission and review capabilities for our journals.

As we roll out these new features we welcome your feedback. Please feel free to e-mail either myself or Mark Engelhard (Chair of the Publications Committee). Also, remember to continue to support our AVS publications through submission of your manuscripts to *JVST A, JVST B,* Biointer*phases,* and *Surface Science Spectra!*

AVS is pleased to announce another change in the publications area—on September 1, 2010, Professor Eray Aydil from the University of Minnesota, will become the new *JVST* Editor-in-Chief succeeding Gerald Lucovsky. Most of you probably already know Eray, as he is the 2010 Program Chair for the AVS International Symposium and Exhibition; for more information on this transition, please see page 2.

AVS thanks Gerry for his 30 years of great service as *JVST* editor. Changes are always bittersweet, but for those of us in academia change is a continual occurrence. You hate to see your productive people move on, but you are excited by the opportunities presented by the new people stepping in to take their place. So we are looking forward to Eray coming on board and building on the successes Gerry along with Gary McGuire (*JVST B* Editor) have provided to *JVST* over the past 2-3 decades.

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Fortunately both Gerry and Gary will be staying on as Editors of *JVST A* and *JVST B* through the end of 2010 to help Eray get up to speed and ensure the transition goes smoothly.

We will provide more information about Gerry and Gary's contributions in the fall *AVS Newsletter*. For now, I invite you to join me in congratulating Eray on his appointment as *JVST* Editor-in-Chief!

General Topics

Eray Aydil Becomes the New *JVST* Editor-in-Chief in September

The AVS Board of Directors is pleased to announce the appointment of Professor Eray Aydil as the Editor-in-Chief of the *Journal of Vacuum Science and Technology (JVST),* the flagship publication of the AVS, effective September 1, 2010. As Editor-in-Chief, he will oversee the editorial operations of both *JVST A & B.* Professor Aydil will succeed Professor Gerald Lucovsky, who has served as the *JVST* Editor-in-Chief since 1980.

Eray is a Professor and the Executive Officer of the Chemical Engineering and Materials Science Department at the University of Minnesota and he holds the Ronald L. and Janet A. Christenson Chair in Renewable Energy. He received his B.S. degrees in chemical engineering and in materials science from the University of California, Berkeley, both in 1986. He completed his graduate research at the University of Houston under the supervision of Demetre Economou and received his Ph.D. degree in chemical engineering in 1991.

He then joined the AT&T Bell Laboratories as a Postdoctoral Member of the Technical Staff working with Richard Gottscho. At Bell Labs, he focused on developing and applying surface sensitive diagnostic techniques that can be used in the harsh conditions encountered in plasma etching and deposition reactors.

He joined the faculty of the Chemical Engineering Department at the University of California, Santa Barbara (UCSB) in 1993 as an Assistant Professor and was promoted to Associate Professor with tenure in 1998 and then to full Professor and Vice Chair of the Department in 2001.

At UCSB, he and his students pioneered the development of *in situ* techniques to monitor composition, dielectric properties, and surface coverage of films during plasma etching and plasma enhanced chemical vapor deposition of materials such as SiO_2, fluorinated SiO_2, Si_3N_4, hydrogenated amorphous Si and hydrogenated nanocrystalline Si.

In 2005, Eray joined the faculty of the University of Minnesota Chemical Engineering and Materials Science Department. His research is focused on solving technologically important and fundamental problems encountered in materials processing for applications in electronic and photovoltaic device manufacturing with emphasis on plasma etching and deposition, plasma modification of surfaces, and dye-sensitized and quantum dot solar cells.

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Meetings Calendar

AVS Board Meetings 2010

- Sunday, June 6, 2010, in Long Beach, California
- October 17, 2010, Albuquerque, New Mexico (in conjunction with the AVS 57th International Symposium and Exhibition)
- Sunday, December 5, 2010 in New York (in conjunction with a visit to AVS Headquarters)

AVS International Symposia

- AVS 57, October 17-22, 2010, Albuquerque, New Mexico
- AVS 58, October 30-November 4, 2011, Nashville, Tennessee
- AVS 59, October 28-November 2, 2012, Tampa, Florida
- AVS 60, October 27-November 1, 2013, Long Beach, California

AVS Short Courses

www.avs.org/education.shortcourses.aspx

AVS Technical Meetings

www.avs.org/calendar.technical.aspx