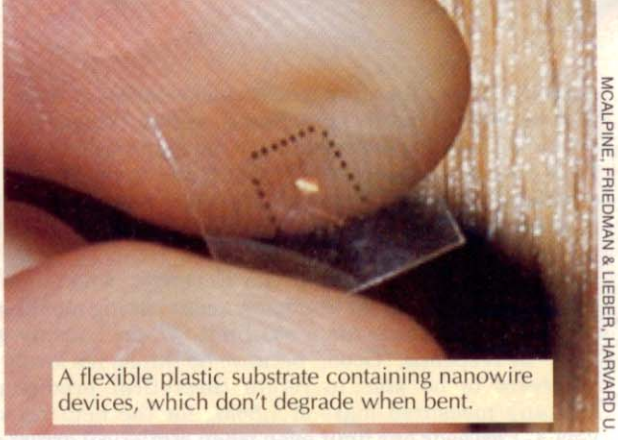
Plasma Science, Thin Films, and Nanotech Dominate AVS Symposium



A flexible plastic substrate containing nanowire devices, which don't degrade when bent.

MCALPINE, FRIEDMAN & LIEBER, HARVARD U.

Do you care about the future of solar power development? Are you curious about the potential applications of structural DNA nanotechnology? Want to know more about gas flow and pump technology?

These topics and scores of others of interest to the vacuum science community are part of the agenda for the 52nd International Symposium of AVS, the Science and Technology Society. This year the five-day annual meeting, which includes an awards ceremony, is slated for Sunday, 30 October, through Friday, 4 November, at the Hynes Convention Center in Boston.

"The Crossbar Architecture for Nanoelectronics" is the topic of this year's plenary symposium lecture by R. Stanley Williams, an H-P senior fellow at Hewlett-Packard Laboratories in Palo Alto, California. Williams's talk, at noon Monday in Ballroom A of the convention center, will focus on the "crossbar latch," a promising nanometer-scale alternative to the transistor. The symposium schedule also includes dozens of lectures, conferences, presentations, and discussions each day. Another highlight is the ASTM Plenary Lecture, which takes place at 2:00pm Sunday in the Hampton Room at the Sheraton Boston Hotel. Susan J. Kerber of Material Interfaces Inc will discuss the application of standards for surface analysis by photon, electron, and ion emission or reflection in manufacturing.

On Wednesday, symposium attendees will gather at 6:15pm in Ballroom A of the convention center for the awards ceremony and reception. Four scientists are being recognized for their accomplishments in the field.

Charles S. Fadley, advanced light source professor for the physics department at the University of California, Davis, and the materials sciences division of Lawrence Berkeley National Laboratory, will receive the Medard W. Welch Award for 2005. He is being honored "for the development of novel techniques based on photoelectron spectroscopy and synchrotron radiation, and their application to the study of the atomic, electronic, and magnetic structure of surfaces and buried interfaces."

Stan Veprek, retired professor, chair, and director of the Institute for Chemistry of Inorganic Materials at the Technical University Munich in Germany and a visiting principal scientist at the Singapore Institute of Manufacturing Technology, will receive the 2005 John A. Thornton Memorial Award and Lecture. He is being recognized "for the generic design concept of strong and hard materials as well as their deposition as thin films by plasma assisted techniques."

Jane P. Chang, associate professor in the chemical and biomolecular engineering department at the University of California, Los Angeles, is receiving the Peter Mark Memorial Award "for pioneering work in the synthesis, processing and characterization of novel materials for applications in microelectronics and optoelectronics."

C. R. Brundle of C. R. Brundle & Associates of Soquel, California, a consultant and instructor in surface and thin film analytical methods, will receive the Albert Nerken Award "for pioneering early development in the field of electron spectroscopy, and sustained applications to surface science and a wide range of industrial materials characterization issues."

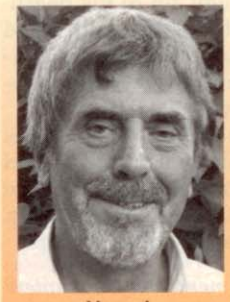
Poster sessions are 5:00pm Monday and 4:00pm Tuesday in Exhibit Halls C and D; technology exhibits are noon to 7:00pm Monday, 10:00am to 6:00pm Tuesday, and 10:00am to 4:00pm Wednesday, also in Exhibit Halls C and D.

Students who plan to attend will be interested in the job information forum at noon Tuesday in the Sheraton Hotel's Independence Ballroom. Four speakers from academia, national laboratories, industry, and nontraditional science careers will discuss how they acquired their jobs and how they have developed their careers. The forum is open to all symposium students and postdoc attendees. A student mixer is planned for 7:00pm Monday at popular nightspot Kings' Deville Lounge at 10 Scotia Street in Boston.

For attendees who are bringing spouses or friends, a companion lounge will open at 7:00am daily Monday through Thursday at the Sheraton's Turning Point Lounge, and daily tours of various sites around the Boston area will be offered. For more information and to register, visit http://www2.avs.org/symposium/boston/registration.html.

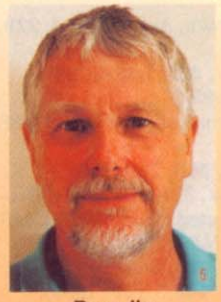
Karen H. Kaplan

Fadley



Veprek

Chang



Brundle