



THE DAYTON SECTION

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BULLETIN

April-May 2003

"The Chemistry Innovation Process: Breakthroughs for Electronics and Photonics"

Dr. Elsa Reichmanis
2003 ACS President
Tuesday, 15 April 2003
National Composites Center
2000 Composite Drive
Dayton, Ohio

2003 Patterson-Crane Award, May 14 (details on page 5)

**Annual Patterson High School Chemistry Awards, June 5
(details on page 7)**

DATED MATERIAL MEETING ANNOUNCEMENT -- DO NOT DELAY

AMERICAN CHEMICAL SOCIETY
Dayton Section
Eugene W. Kettering Center
140 East Monument Avenue
Dayton, Ohio 45402-1267
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Meetings...

April

"The Chemistry Innovation Process: Breakthroughs for Electronics and Photonics"

Date: Tuesday, 15 April 2003

Place: National Composites Center
2000 Composite Drive
Dayton, Ohio

Agenda: Talk: 4:00-5:00 PM
Social: 5:00-5:30 PM

Speaker: Dr. Elsa Reichmanis
2003 ACS President, Bell Laboratories, Lucent Technologies

Abstract: The microelectronics era began a little over 50 years ago with the invention of the point contact transistor at Bell Labs. Who would have thought that that small object, maybe 2 to 3 inches in size would lead the way to the development of a huge, multi-billion dollar electronics industry that impacts every aspect of our lives today? This so-to-speak second industrial revolution has depended upon advances in almost every field of science and engineering. But it is chemistry that has provided the foundation for fabrication processes that allow for circuit elements that are 1000 times smaller than the diameter of a human hair. And perhaps somewhat parochially, materials chemistry provides the foundation for all advanced electronic and photonic breakthroughs that enable network systems technology advances. The implementation of these concepts and inventions into innovative technologies can be facilitated but requires an integrated, multidisciplinary team oriented research/development effort in order to rapidly capitalize on research insights, and an understanding of market needs coupled with knowledge of the latest research findings.



Meetings...

April

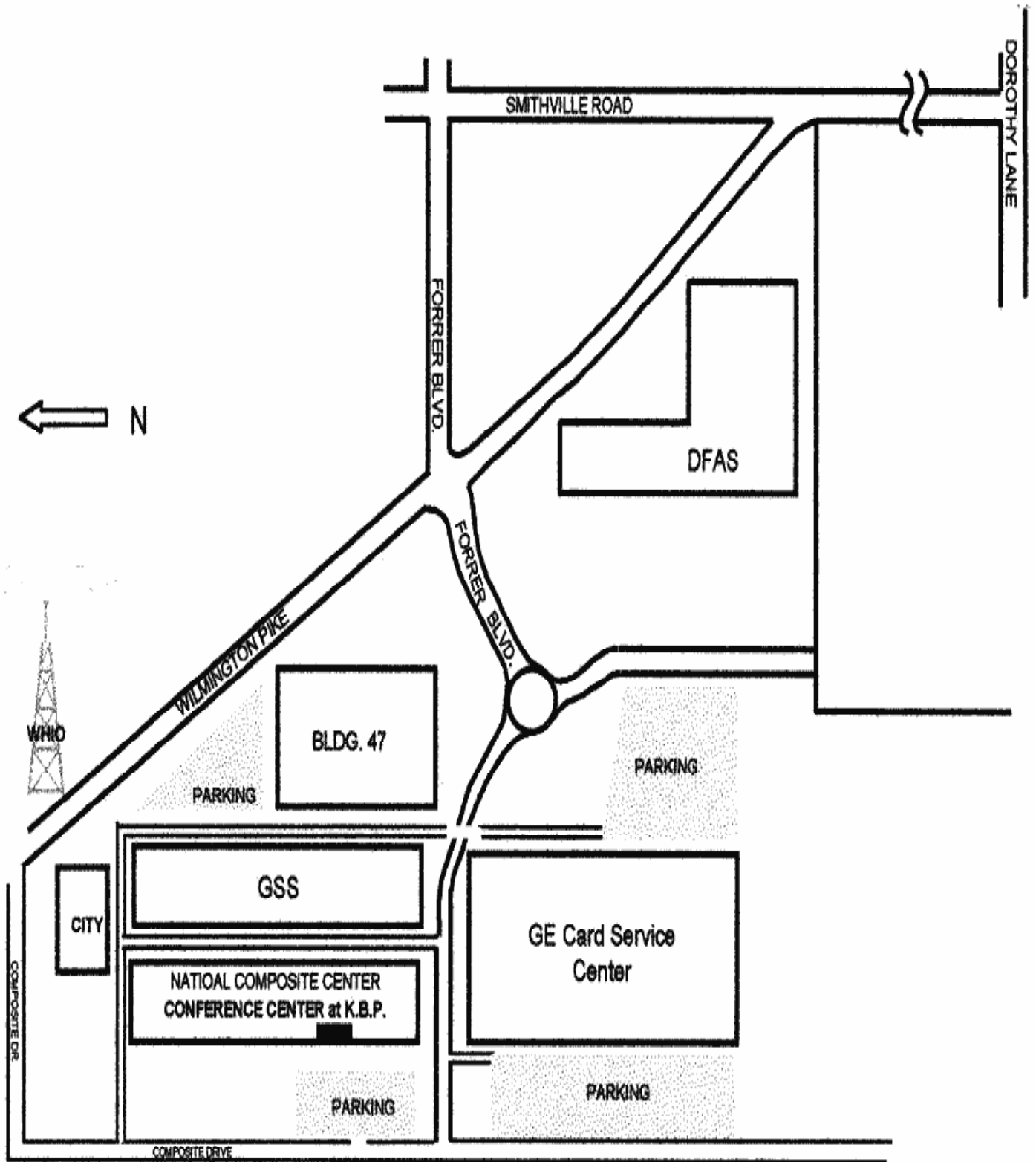
Biography: Dr. Elsa Reichmanis is Bell Labs Fellow and Director of the Materials Research Department at Bell Laboratories, Lucent Technologies, Murray Hill, NJ. She received her Ph.D. (1975) and BS (1972) degrees in chemistry from Syracuse University, and joined Bell Labs in 1978 after completing a post-Doctoral Fellowship program. Her research interests include the chemistry, properties and application of materials technologies for photonics and electronics, with particular focus on polymeric and nanostructured materials for advanced communications technologies. She has published in a variety of areas ranging from synthetic organic and heteroaromatic chemistry to radiation chemistry of polymeric systems. She is author of over 150 publications, the holder of several patents and editor of five books. Dr. Reichmanis was presented with the 1993 Society of Women Engineers Achievement Award; she was elected to the National Academy of Engineering in 1995, and was awarded the ASM Engineering Materials Achievement Award in 1996. In 1997, she was elected Fellow of the AAAS. She is the recipient of a 1998 Photopolymer Science and

Technology Award, is the 1999 ACS Applied Polymer Science Awardee, the Society of Chemical Industry's 2001 Perkin Medalist and a 2001 recipient of Syracuse University's Arents Medal. She is Past Chair of the Executive Committee of the American Chemical Society Division of Polymeric Materials: Science and Engineering, was a Member of the National Materials Advisory Board, and the Air Force Scientific Advisory Board. She is an Associate Editor of the Journal, Chemistry of Materials. She currently serves as the 2003 President of the American Chemical Society



Meetings...

April



Meetings . . .

M a y

2003 Patterson-Crane Award

Date: May 14, 2003

Place: CAS*

Agenda: Reception: Courtesy of CAS (6:00 PM)
Dinner**(7:00 PM)

Presentation of the Austin M. Patterson-E.J. Crane Award (8:00 PM)
Award Address: "Opening the New Research Vista"
2003 Recipient: Robert J. Massie, Director, CAS

"Opening the New Research Vista"

For much of the 20th century, the image of chemical research was of a chemist or student searching for a list of relevant documents in CA, then accessing those documents in "the stacks." In the 1980's and much of the 1990's, that image changed to electronic searches, most often mediated by "information professionals." Still, and predominately, the objective of the research was to produce the "answer set." Then, beginning in the second half of the 1990's CAS opened to individual chemists and allied scientists an astonishing new research vista. Not only was electronic or digital research put in the hands of the individual chemist, but new opportunities to search, explore, analyse and link information were created. This paper will discuss the origins and development of this new service, SciFinder, and will examine some of the new capabilities that are transforming the way chemical research is conducted.

*To get to Chemical Abstracts Service, take I70 East to I670 East to Route 315 North to Lane Avenue. Go east on Lane to Olentangy River Road. Go north on Olentangy River Road, past the Fawcett Center for Tomorrow to Burnbrae Avenue (just before Dodridge Street). Go east and park in parking lot. Enter the building from the north side and please sign in and get a badge.

**Reservations: You must select the beef, chicken, or vegetarian entree when making your reservation. Please use the new voice mail reservations service, by calling 614-447-3600 x 7047. Follow template for reservations: First and last name (please spell last name), member category (member, retired, emeritus, unemployed, student, HS teacher, other), employer, your phone no. (in case we need to contact you). Alternatively, please send email to Ed King eking@cas.org. Reservations Deadline: Wednesday, May 7.

Meetings . . .

M a y

Robert J. Massie

Robert J. Massie, Director of Chemical Abstracts Service (CAS), a division of the American Chemical Society, is the 2003 recipient of the Patterson-Crane Award presented biennially by the Columbus and Dayton Sections of the American Chemical Society. The award recognizes Mr. Massie for his leadership, particularly in encouraging the creation of the revolutionary SciFinder and SciFinder Scholar services; expanding Chemical Abstracts database content with citations, reactions, and properties; and improving the currency of patent information in CAS databases.

Prior to being appointed CAS Director, Mr. Massie had extensive information and publishing industry experience, including having served as President and CEO of Gale Research, Inc., a subsidiary of the Thomson organization. Mr. Massie held senior executive positions with the Torstar Corporation; he was a management consultant with McKinsey & Co. in New York. He also practiced law with the firm of Covington & Burling in Washington, D.C. where one of his areas of specialization was Food and Drug law.

Mr. Massie holds a joint J.D./MBA degree from Columbia University, where he was a Harlan Fiske Stone scholar; he is an honors graduate of Yale College.

Mr. Massie is a member of several community boards of directors, including the Columbus Chamber of Commerce, COSI (Ohio Center of Science and Industry), the Columbus Council on World Affairs, and the Children's Hospital Research Foundation. He is Chairman of the Columbus Technology Council. In 1998, Mr. Massie received the Executive of the Year award from the Industry & Technology Council of Central Ohio.



Meetings . . .

June

Annual Patterson High School Chemistry Awards

Date: June 05, 2003

Place: Wright State University
Student Union, Room 156A
(http://www.wright.edu/aboutwsu/maps/map_bw1.html)

Time: 6:30-8:30 PM

Speaker: Prof. John Fortmann
Wright State University

The annual high school awards meeting will be held at the Student Union building of Wright State University on June 5, 03 at 6.30 PM. Prof. John Fortmann of Wright State University will be our speaker. Light refreshments will be provided.

The Patterson Chemistry Competition

The 2003 Patterson High School Chemistry Competition was held on February 1st at Sinclair Community College. The competition is open to students in Montgomery, Miami, Greene, Darke, Clark, Preble, and Champaign Counties. Ninety-two students from nineteen different high schools participated in this year's competition.

The most outstanding student from each school, identified by their scores on a multiple choice chemistry exam, will receive a plaque from the Dayton Section. In addition, each top scorers from the exam may submit an essay on Chemistry and Its Relevance to Me for cash awards: \$1000 (First Place), \$500 (Second Place), and \$250 (Third Place). The top eight students (only two from the same school) will also qualify to take the regional Chemistry Olympiad exam for the National Team. The winners of these awards will be announced at the June Dayton Section meeting.

ACS-SAS Annual Poster Session and Patterson College Chemistry Awards

The annual Dayton Section Poster Session was held on March 6th in the Kennedy Union Ballroom at the University of Dayton. There were 35 contributed posters. The Graduate Student awardee (\$100) for outstanding poster was Stephen Peterangelo from Wright State University. The Undergraduate Student Award (\$100) for outstanding poster went to Liesel Holloway of the University of Dayton.

The Patterson College Chemistry Award winners are:

- | | |
|--------------------------|--------------------------|
| ❖ Sarah Lampert | Antioch College |
| ❖ Justin Price | Cedarville University |
| ❖ Jazerie Williams | Central State University |
| ❖ Patrick Elliott | University of Dayton |
| ❖ Miranda Hayman | Wittenberg University |
| ❖ Sharlene Renee Hopkins | Wright State University |



Jazerie Williams, a graduate student from Central State accepting the college award from the Dayton ACS chair, Dr. Nat Natarajan (Photo by Mr. Vincent Tondiglia)