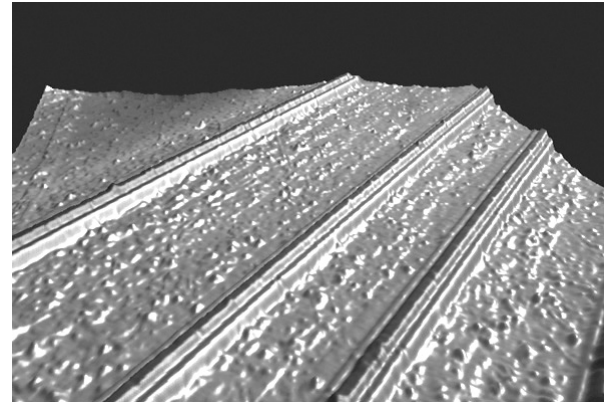


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THE 30th Annual  
NORTHERN CALIFORNIA

## ELECTRONIC MATERIALS SYMPOSIUM

A One-Day Symposium on Electronic  
Materials Featuring Outstanding Authorities  
in Their Respective Fields

SUNNYVALE 4 Points SHERATON

1250 Lakeside Drive  
SUNNYVALE, CALIFORNIA

Friday  
April 19th, 2002  
8:30 AM

<http://www.parc.com/ems>  
(Online registration available)

## PROGRAM

Friday, April 19th, 2002  
Sunnyvale Sheraton

8:30 Registration

### MORNING SESSION

Session Chair: Prof. Oscar Dubon  
UC Berkeley, CA

9:00 **Welcome Remarks and Introduction**

Prof. Stacy Gleixner  
San Jose State University, CA

9:10 "Microphotonics: The Next Platform for the Information  
Age", Prof. Lionel Kimerling, MIT, Cambridge, MA

9:55 "MEMS for Bio-Threat Detection?", Dr. Kurt Peterson,  
Cepheid

10:40 **REFRESHMENTS** (Vendor Exhibit Area)

11:10 "Materials Issues in Design of High Density Magnetic  
Recording Systems", Dr. Tom Nolan, Seagate

12:00 **LUNCHEON**

12:45 **28<sup>th</sup> Annual Ross Tucker Award**  
**4<sup>th</sup> Annual EMS Undergraduate Scholarship**

12:55 "Surface and Microanalysis of Electronic Materials", Dr.  
Charles Evans, Charles Evans & Assoc., Sunnyvale, CA

### AFTERNOON SESSION

Session Chair: Dr. Joachim Krueger  
Agilent Technologies, San Jose, CA

2:00 "Molecular Electronics", Dr. Stan Williams, Hewlett-  
Packard Co., Palo Alto, CA

2:45 "Nanoparticle Electronics and Photonics", Prof. Harry  
Atwater, CalTech, Pasadena, CA

3:30 **REFRESHMENTS** (Vendor Exhibit Area)

4:00 "Crystalline Oxides on Si: A New Compliant Substrate  
for Compound Semiconductors", Dr. Jamal Ramdani,  
Motorola, Tempe, AZ

4:45 "InGaAsN: A Promising Material for Long Wavelength  
Vertical-Cavity Lasers" Dr. Ying-Lan Chang, Agilent  
Technologies, Palo Alto, CA

5:30 **HOSTED COCKTAIL PARTY**  
**VENDOR'S SHOW**

The Symposium registration covers admission to the Symposium sessions, abstracts of the Symposium presentations, luncheon, a vendor's exhibit, and a partially hosted cocktail hour following the Symposium. Beverage tokens for the cocktail hour will be available in the vendor area during the afternoon sessions.

Costs of the Symposium have been kept to a minimum to encourage attendance. A discounted registration fee is available until March 29, 2002. To reserve your place in the Symposium and in the luncheon, we urge you to register early by mail, using the attached form. All registration is transferable but not refundable.

During the Symposium, the Ross N. Tucker Memorial Awards will be presented to two Bay Area graduate students in recognition of excellence in research. The EMS Undergraduate Awards will be presented to a Bay area undergraduate in recognition of excellent scholarship in electronic materials.

The Symposium features a Vendor's exhibit. Information and displays of new materials, processing equipment, and analytical instruments will be presented by representatives of manufacturers. A special feature this year will be HR booths by a number of leading employers of materials scientists and engineers.

A partially hosted cocktail hour will follow the Symposium presentations. This provides an opportunity for informal discussions with Symposium speakers, vendors and attendees.

Registration material and abstracts of the Symposium presentations will be provided at the registration booth.

The opening session will begin promptly at 9:00AM. Registration begins at 8:30AM. The vendors' area will be available for setup at 8:00AM.

Further questions regarding the Symposium should be directed to Prof. Stacy Gleixner, San Jose State University. Phone: 408-924-4051, email: Gleixner@email.sjsu.edu.

The Electronic Materials Symposium Committee exists to promote the understanding of electronic materials within the industrial and academic communities of the San Francisco Bay area. This committee organizes the annual Electronic Materials Symposium, featuring presentations on advanced electronic, magnetic and optical materials processing, characterization and devices by outstanding speakers who have made significant contributions to their fields. Proceeds of the symposium are used to support electronic materials research and education in local universities.

### ABOUT THE COVER

A scanning tunneling microscope image of dysprosium disilicide wires that are about 2 nanometers (six atoms) wide and separated by nine nanometers from each other. These wires were 'grown' on a silicon substrate as the result of a chemical reaction.

Source: Dr. Stan Williams, Hewlett Packard Co.



General Information

