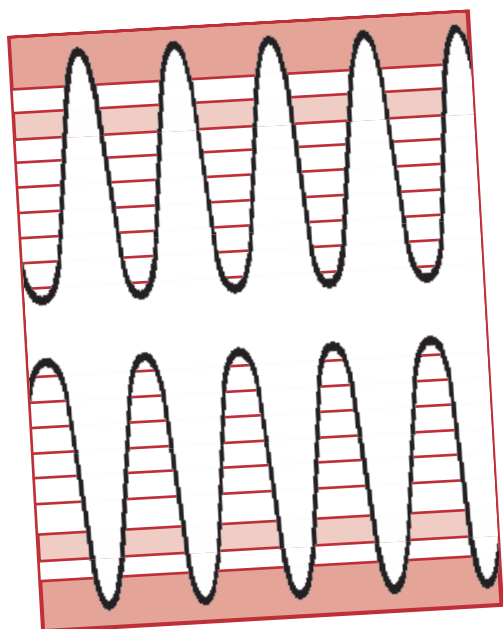


44<sup>th</sup>

# 2002 ELECTRONIC MATERIALS CONFERENCE

University of California  
Santa Barbara, CA

June 26-28, 2002



# TMS

**ADVANCE PROGRAM**  
*Includes Housing and Registration Forms*

Sponsored by:  
The Electronic, Magnetic, & Photonic Materials  
Division of TMS

## TABLE OF CONTENTS

Airline Information .....	xxii
Campus Map .....	center insert
Car Rental .....	xxiii
Directions .....	xiv
EMC Committee .....	xvi
Exhibit Info .....	vii
Invited Organizers.....	xix
JEM.....	xxvi
Board .....	xxi
Publication .....	xvi
Subscriptions .....	xix
John Bardeen Award .....	xxi
Late News Papers.....	iv
Location .....	vi
Lunch Plans.....	xi
Housing .....	xii
Off-Campus .....	xii
On-Campus .....	ix
On-Campus Housing Form.....	center insert
Organizing Committee.....	xvi
Parking .....	xv
Recreation .....	vi
Registration Form .....	center insert
Registration Information.....	iv
Schedule of Events.....	1
Social Activities .....	vii
Sponsorship Opportunities.....	viii
Student Awards .....	vi
TMS Membership .....	xxiv
Technical Sessions .....	4

## GENERAL INFORMATION

### DATE AND LOCATION

The 44th Annual Conference of the EMPMD Electronic Materials Committee of The Minerals, Metals & Materials Society will be held at the University of California, Santa Barbara, June 26-28, 2002. This conference is being coordinated with the Device Research Conference of IEEE, which will take place June 24-26, 2002, at the same location.

### INTENDED AUDIENCE

The 44th Electronic Materials Conference (EMC) provides a forum for topics of current interest and significance in the area of preparation and characterization of electronic materials. Individuals actively engaged or interested in electronic materials research and development are encouraged to attend this meeting. Attendees include students, professors, scientists, engineers, researchers, technicians, R&D managers, and product managers.

### TECHNICAL PROGRAM INFORMATION

For technical program information regarding the 2002 Electronic Materials Conference, please contact:

Ilesanmi Adesida, General Chair  
University of Illinois  
Microelectronics Lab  
208 N. Wright St.  
Urbana, IL 61801  
Telephone: 217-244-6379  
Fax: 217-244-6375  
E-mail: adesida@capone.micro.uiuc.edu

or

April Brown, Program Chair  
Georgia Institute of Technology  
School of ECE  
Carnegie Building  
Atlanta, GA 30332  
Telephone: 404-894-5053  
Fax: 404-894-1277  
E-mail: april.brown@carnegie.gatech.edu

EMC Registration and Housing forms are included in the center of this brochure.

*Early Housing and Registration are Advised.*

## GENERAL INFORMATION

### CONFERENCE REGISTRATION

All attendees are encouraged to register in advance to avoid delays in registering at the Conference. Both Electronic Materials Conference (EMC) and Device Research Conference (DRC) badges will be accepted by both Conferences on Wednesday, June 26. Advance registration fees are as follows: full conference \$350; one day \$300; student \$150.

Registration fee includes Welcoming Reception, Coffee Breaks, Thursday Banquet, attendance to all Technical Sessions, and Exhibition. One-day fee does not include the Thursday dinner.

To register in advance, complete the registration form provided in the center of this mailer. Advance registrations will be accepted until June 3, 2002. For questions on advance registrations, please contact TMS Meeting Services at Telephone: 724-776-9000 ext. 243; Fax: 724-776-3770; or E-mail: mtgserv@tms.org.

You may register at the Conference. Please note: On-site registration fees will be higher. On-site registration will be located in the University Center/Multicultural Lounge and begin on Tuesday afternoon continuing through Friday morning during the following hours:

Tuesday, June 25 .....	3:00 PM-5:00 PM
Wednesday, June 26 .....	7:30 AM-5:00 PM
Thursday, June 27 .....	7:30 AM-4:00 PM
Friday, June 28 .....	7:30 AM-10:00 AM

### REFUND POLICY

A written request must be sent to TMS Headquarters, 184 Thorn Hill Road, Warrendale, PA 15086, and postmarked no later than June 3, 2002. A \$50 processing fee will be charged on all cancellations. NO refunds will be issued after the deadline date.

### MESSAGES

A telephone and message board will be located near the Registration Desk in the University Center/Multicultural Lounge. Messages will be posted in this area throughout the Conference. Messages will also be posted in the Residence Halls. If you are residing on campus, you will receive the appropriate number to be used in an emergency in your housing packet.

### CAMPUS SMOKING POLICY

University of California prohibits smoking in its buildings. Smoking will be allowed only in outdoor areas.

### LATE NEWS PAPERS

Late News Papers will be considered. Authors must submit the abstract by June 3, 2002 to the Program Chair. Authors of accepted papers will be notified before the EMC Conference.

## GENERAL INFORMATION

### TECHNICAL SESSIONS

The Electronic Materials technical program will commence at 8:30 AM on Wednesday, June 26. Sessions will be held on grounds at the University of California at the University Center. University Center/Corwin Pavilion will be the location of the conference plenary session.

Session and paper titles are included in this brochure.

### AMERICANS WITH DISABILITIES ACT

TMS strongly supports the federal Americans with Disabilities Act (ADA), which prohibits discrimination against, and promotes public accessibility for those with disabilities. In support of and compliance with this Act, we ask that those registered attendees requiring specific equipment or services, indicate your needs on the enclosed housing and registration forms.



### POLICY ON AUDIO AND VISUAL RECORDING OF TECHNICAL PAPER PRESENTATIONS/SESSIONS

TMS reserves the rights to any audio and video reproduction of all presentations at every TMS sponsored meeting. Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication, or copyright without the express written consent of TMS and the individual authors is strictly prohibited.

### PROGRAM

A complete program with abstracts of papers to be presented at the meeting will be made available for all registrants at the registration desk when picking up your registration packet.

### MANUSCRIPT SUBMISSION

General manuscripts should be sent to Theodore C. Harman, editor of the *Journal of Electronic Materials* at the following address:

Theodore C. Harman  
Lincoln Laboratory  
Massachusetts Institute of Technology  
244 Wood Street  
Lexington, MA 02420-9108  
Telephone: 781-981-4418  
Fax: 781-981-0122  
E-mail: tharman@11.mit.edu.

Detailed manuscript submission guidelines are available from the *JEM* web site at <http://www.tms.org/pubs/journals/JEM/jem.html>.

## GENERAL INFORMATION

### STUDENT TRAVEL ASSISTANCE

Student authors who plan to present a paper at the 2002 Electronic Materials Conference may be eligible for travel assistance depending on the particular circumstances involved. To apply for student travel assistance, submit an application no later than June 5, 2002 to:

Ilesanmi Adesida, General Chair  
University of Illinois  
Microelectronics Lab  
208 N. Wright St.  
Urbana, IL 61801  
Telephone: 217-244-6379  
Fax: 217-244-6375  
E-mail: adesida@capone.micro.uiuc.edu

### STUDENT AWARDS

Three \$500 student awards are given annually by the Electronic Materials Committee for the best presentations by students at the conference. Student papers will be judged on both scientific content and presentation at the Electronic Materials Conference.

Awards will be presented during the plenary session on Wednesday, June 26, in the Corwin Pavilion.

### COMPUTER/NETWORK FACILITIES

Those registrants residing in the residence halls will have access to a computer lab for their email use between the hours of 7:00-11 AM and 7:00-11:00PM from Monday through Thursday.

There are a few public computer lounges located in the University Center, which can be used by those attendees not residing in the Residence Halls.

### RECREATION

The RecCenter is open daily Monday – Sunday. Hours will be posted at the Service Desk for your convenience. The cost is \$5.00 for adults and \$3.00 for children. **NO ONE MAY ENTER THE FACILITY WITHOUT A PHOTO ID.** Equipment includes racquetball and squash courts, weight training rooms, gym and 3 swimming pools.

### ABOUT SANTA BARBARA

The city of Santa Barbara, founded by the Spanish in the 18th century, is considered to be one of the jewels of the California coast. It lies approximately 100 miles northwest of Los Angeles, nestled against the Santa Ynez Mountains and overlooking the Pacific Ocean. In June, the days are warm (70s) and the nights are cool (50s), with occasional morning fog. Nearby are many excellent ocean beaches, lakes, forests, mountains with varied hiking trails, and such man-made attractions as the Hearst Castle, the flower fields of Lompoc, the Old World Danish Village of Solvang, the Mission, Court House, and other examples of Spanish architecture.

### DRESS

Casual clothing is in order with a sweater or light jacket occasionally needed for the evenings. The University of California is essentially a walking campus, so be sure to wear comfortable walking shoes.

## SOCIAL ACTIVITIES

### WELCOMING RECEPTION

All attendees are invited to attend a hosted Welcoming Reception on Wednesday, June 26 from 7:00 PM-9:00 PM in the University Center/Lagoon Plaza.

### EVENING AT THE NATURAL HISTORY MUSEUM

On Thursday, June 27, conference attendees and their guests will have the opportunity to enjoy a catered dinner at the Santa Barbara Natural History Museum. The cost of this event is included in the full conference and student registration fee. It is not included in the one-day registration fee.

The cost for one-day registrants and guests is \$60 for adults and \$25 for children 12 and under. You may order tickets for this event on the registration form. You are encouraged to purchase your tickets in advance. Tickets will be available at the registration desk at the conference. Deadline for ticket sales will be 5:00 PM on Wednesday, June 26, 2002.

### INFORMAL COFFEE BREAKS

During the intermission of morning and afternoon sessions (at approximately 10:00-10:40 AM and 3:00-3:40 PM) coffee, tea, and sodas will be served in the University Center/Lagoon Plaza, location of exhibits.

## EXHIBITION & SPONSORSHIP

The 2002 Electronic Materials Conference (EMC) will host an exhibition of electronic materials technology and services. Exhibitors are invited to display equipment, instrumentation, software, publications and services relating to areas of electronic materials industry and research.

The Exhibition is an ideal opportunity for attendees to meet with suppliers, and acquaint themselves with the latest technologies, products and processes.

Several key events are organized to encourage attendees to visit the exhibition throughout the conference, including:

- A Welcoming Cocktail Reception in the exhibit area the opening day of the show, 7:00 to 9:00 PM
- Conference coffee breaks held in the exhibit area
- Exhibit located conveniently to technical session rooms
- Exhibition hours which complement the technical program schedule

### Exhibition Location:

University Center/Lagoon Plaza

### Exhibit Dates and Times:

Wednesday, June 26, 2002..... 9:15 AM-4:00 PM, 7:00-9:00 PM  
Thursday, June 27, 2002.....9:00 AM-4:00 PM

## EXHIBITION & SPONSORSHIP

### The Exhibition fee includes:

- 10'x10' Exhibition space with back and side drape.
- One-six foot draped table
- Two-chairs
- Standard electrical service
- Complementary listing for each exhibiting company in the show directory—Distributed to all meeting registrants
- One complimentary registration to the technical sessions and exhibits
- Hosted Welcoming Reception in the exhibition area
- Hosted coffee and refreshment breaks in the Exhibition Area
- One-complimentary ticket to the EMC social
- Post-show report of meeting participants
- Exhibition management services

To reserve space for the 2002 EMC Exhibition, complete and return the enclosed Exhibition and Sponsorship Reservation Form. To allow sufficient time for advance planning and promotion, prospective exhibitors are encouraged to return the reservation form no later than May 25, 2002. Space is assigned on a first-come-first-served basis.

### CORPORATE SPONSORSHIP OPPORTUNITIES

Sponsorships are an exciting way to enhance your company's public relations at the Conference, increase visibility on and off the exhibit floor, and enhance brand identity to the EMC audience.

As exclusive sponsor of one of the following areas at the Electronic Materials Conference, you will showcase your company name and logo to ALL conference and exhibit attendees! Make an impact on all attendees with:

- Signage throughout the conference areas
- TMS Website recognition and hypertext link
- Conference program acknowledgement with company name and logo

### PROPOSED SPONSOR ACTIVITIES

- Welcoming Reception—a popular opening day event
- Coffee breaks—extend your message one, two or three days at the popular coffee breaks
- Continental breakfast—attendees will appreciate this enhanced break, served with your compliments
- Thursday evening social event—a tradition at the EMC, evening at the Natural History Museum, for all registrants
- Cyber Café—be the official provider of e-access to all attendees who visit the Cyber Café.

### CONTACT INFORMATION

For more information on the exhibition and corporate sponsor opportunities, contact:

Cindy A. Wilson, Exhibits Coordinator  
TMS, 184 Thorn Hill Road, Warrendale, PA 15086  
Telephone: 724-776-9000, ext. 231  
Fax: 724-776-3770  
E-mail: wilson@tms.org

## ON-CAMPUS HOUSING

### ON-CAMPUS HOUSING ACCOMMODATIONS

We are pleased to invite EMC attendees to reside on the seaside campus of UCSB. On-campus accommodations will be available on a first request basis; therefore, early registrations and reservations are essential.

UCSB Residence Halls and Dining Facilities are located within a 5-10 minute walk from the session meeting rooms and from the beach. Residence Hall accommodations are either single or double occupancy, with single rooms reserved on a first request basis. There are no rooms with private restrooms; restroom and shower facilities are located on each floor. Lodging includes beds made on arrival day and daily room service with washcloth and towel change. Unfortunately, there is no housing on campus for those with children. We would recommend a selection from one of the hotel blocks if you will be traveling with children. Please check the hotel listings in the Off-Campus Housing section of this brochure.

We offer the following package plans to provide planning flexibility and the option to attend both DRC and EMC. All residence hall package plans include full meal service. Residence hall rooms without meals are not available. No adjustments for lodging or meals will be made for late arrival or early departure from the chosen package.

Please indicate your plan preference on the enclosed reservation form and return it with your payment to:

Sally Vito  
Campus Conference Services  
University of California  
Santa Barbara, CA 93106-6120  
Telephone: 805-893-3072  
Fax: 805-893-7287  
E-mail: svito@housing.ucsb.edu

Reservations received by May 31, 2002, will be sent a confirmation by the Conference Office. Prepayment for the anticipated number of nights is required.

Meals will be served in the Dining Commons during the following hours:

Breakfast..... 7:00 AM-8:00 AM  
Lunch ..... 11:45 AM-1:15 PM  
Dinner ..... 5:30 PM-7:00 PM

NOTE: Food facilities on campus close at 7:00 PM.

## ON-CAMPUS HOUSING

### PLAN A:

Includes lodging Tuesday through Thursday nights and the following 8 meals:

Tuesday .....	dinner
Wednesday .....	breakfast, lunch and dinner
Thursday .....	breakfast and lunch (no dining commons meal offered Thursday night due to the EMC Banquet)
Friday .....	breakfast and lunch

NOTE: this package includes dinner on your arrival day.

Single Occupancy .....	\$257.00 per person
Double Occupancy .....	\$209.00 per person

### PLAN B:

Includes lodging Wednesday and Thursday nights and the following 6 meals:

Wednesday .....	lunch and dinner
Thursday .....	breakfast and lunch (no dining commons meal offered Thursday night due to the EMC Banquet)
Friday –	breakfast and lunch

Single Occupancy .....	\$185.00 per person
Double Occupancy .....	\$154.00 per person

### PLAN C:

(for those planning to attend DRC and EMC) Includes lodging Sunday through Thursday night and the following 12 meals:

Sunday .....	dinner
Monday .....	breakfast and lunch (no dining commons meal offered Monday night due to the DRC Poster Session Reception)
Tuesday .....	breakfast and lunch (no dining commons meal offered Tuesday night due to the DRC Banquet)
Wednesday .....	breakfast, lunch and dinner
Thursday .....	breakfast and lunch (no dining commons meal offered Thursday night due to the EMC Banquet)
Friday .....	breakfast and lunch

NOTE: This package includes dinner on your arrival day.

Single Occupancy .....	\$398.00 per person
Double Occupancy .....	\$319.00 per person

### EARLY ARRIVAL PACKAGE

Saturday Night (June 22) Room Rate: (includes lodging Saturday night with a sandwich bar in the Residence Hall from 6:00 PM–8:00 PM and a Continental Breakfast Sunday morning in the Residence Hall from 7:00 AM–9:00 AM.)

Single Occupancy .....	\$73.00 per person
Double Occupancy .....	\$57.00 per person

## ON-CAMPUS HOUSING

### LATE DEPARTURE

Friday Night (June 28) Room Rate: (includes lodging Friday evening and the following meals):

Friday .....	dinner
(Breakfast & Lunch included in main packages)	
Saturday .....	breakfast

NOTE: Checkout is Saturday, 11:00 AM

Single Occupancy .....	\$70.00 per person
Double Occupancy .....	\$55.00 per person

### COMMUTER LUNCH PACKAGE

Attendees that plan to make off-campus housing arrangements directly with the hotel/motel and wish to purchase a commuter lunch package for on-campus meals, the following packages are available through the University of California.

Three (3) EMC lunches .....	\$23.25
Five (5) DRC/EMC lunches .....	\$38.75

NOTE: It is important to apply early on the Housing Reservation Form.

### NO REFUNDS WILL BE MADE FOR LATE ARRIVALS, EARLY DEPARTURES, OR MISSED MEALS

### METHOD OF PAYMENT:

Payment is U.S. dollars may be made by:

- Personal Check or Money Order. Checks must be drawn on a U.S. Bank and made payable to “U.C. Regents”.
- Credit Card: American Express, Visa, or MasterCard

If you have questions regarding on-campus registration and accommodations, please contact:

Sally Vito  
 Campus Conference Services  
 University of California  
 Santa Barbara, CA 93106-6120  
 Telephone: 805-893-3072  
 Fax: 805-893-7287  
 E-mail: svito@housing.ucsb.edu

## OFF-CAMPUS HOUSING

### OFF-CAMPUS HOUSING ACCOMMODATIONS

Blocks of rooms have been reserved at special conference rates for the hotels listed below. Rooms will be released as early as mid-May. Thereafter, reservations can be obtained only on a space available request. Please contact the hotel directly by mail, phone, or fax as soon as possible. Rooms are available for DRC, EMC or both, Sunday through Thursday nights, and you must identify yourself as either an EMC or DRC attendee. You can also stay Friday or Saturday night if you request it at the time you make your reservations, however, the special rates below DO NOT apply to weekend rates. Friday and Saturday rates will be higher. Please note that the following rates DO NOT include 10-12% tax.

The following hotels are located in Goleta approximately 4 – 5 miles from campus (7-10 minutes driving time):

#### Best Western South Coast Inn

5620 Calle Real  
Goleta, CA 93117  
Telephone: 805-967-3200  
Fax: 805-683-4466  
\$120 single/double (Sunday – Thursday night)

All rooms have high-speed Internet access, refrigerator, coffeemaker, hairdryer, iron and ironing board. Rate includes continental breakfast buffet daily and evening hospitality Monday through Thursday. Complimentary shuttle service to and from the Santa Barbara Airport.

#### Holiday Inn (Reservation Code 2-DRC)

5650 Calle Real  
Goleta, CA 93117  
Telephone: 805-964-6241  
Fax: 805-964-8467  
\$109.99 single/double (Sunday – Thursday night)

Full service restaurant; heated pool in palm garden setting. Holiday Inn's nationally recognized high service standards; complimentary airport shuttle between 6 AM–10 PM.

#### Ramada Limited

4770 Calle Real  
Santa Barbara, CA 93110  
Telephone: 805-964-3511  
Fax: 805-964-0075  
\$112 single; \$10 each additional person (Sunday – Thursday night)

Lushly landscaped gardens and beautiful water lily lagoon; Complimentary Buffet-style Continental Breakfast included; rooms are equipped with cable television, data ports for high-speed internet access, irons and ironing boards and hair dryers.

## OFF-CAMPUS HOUSING

The following hotel is located off the main entrance onto campus (3 minute driving time):

#### Pacifica Suites

5490 Hollister Avenue  
Goleta, CA 93117  
Telephone: 805-683-6722  
Fax: 805-683-4121  
\$121 single (Sunday – Thursday night)

Complimentary cooked-to-order breakfast daily, complimentary evening beverages Monday – Saturday. Heated pool and spa. Complimentary airport shuttle 7 AM– 7 PM with 24-hour notice.

The following hotels are located in Santa Barbara:

#### El Encanto Hotel and Garden Villas

1900 Lasuen Road  
Santa Barbara, CA 93103  
Telephone: 805-687-5000  
Fax: 805-687-0943  
\$129 single (Sunday – Thursday night)

Nestled in the foothills of Santa Barbara and overlooking the Pacific Ocean, the historic El Encanto Hotel features garden villas and cottages – many with wood-burning fireplaces, private patios or balconies and an elegant dining room with outdoor terraces. Charter Member of Historic Hotels of America.

#### The Upham Victorian Hotel and Garden Cottages

1404 De La Vina Street  
Santa Barbara, CA 93101  
Telephone: 805-962-0058  
Fax: 805-963-2825  
\$120 single (Sunday – Thursday night)

All rates include a deluxe continental breakfast, afternoon refreshments of fruit, wine and cheese and Oreo cookies and milk in the evening.

#### Radisson Hotel Santa Barbara

1111 East Cabrillo Boulevard  
Santa Barbara, CA 93103  
Telephone: 805-963-0744  
Fax: 805-962-5555  
\$129 single (Sunday – Thursday night)

A Mediterranean style hotel conveniently located across the street from the famous East Beach. Amenities include swimming pool, fitness center, restaurant, in-room coffee maker, hairdryer, iron and ironing board plus Dataport modems for on-line access.



## TRANSPORTATION

The Santa Barbara area may be reached by:

### CAR

UCSB is easily accessible from US 101. From the South, take the UCSB/Highway 217 exit and identify yourself at the gate as either an EMC or DRC/EMC attendee. From the North, take the Storke Road/UCSB exit and drive south (toward the ocean) to a “T” junction with El Colegio Road. Turn left onto El Colegio Road and ask for directions at the University gate. If you are residing on campus you will be notified in your confirmation which Residence Hall you have been assigned and the attendant at the gate can provide you with directions and a temporary parking permit. If you are residing off campus and will be driving to UCSB, please stop at the gate for directions as well.

### TRAIN

Amtrak Train Service serves Santa Barbara. The Amtrak terminal is located in downtown Santa Barbara as well as in Goleta. From there, you may reach the campus or your hotel by SuperRide Shuttle or taxi only. Note: The UCSB Campus Shuttle cannot pick you up from the train station if you are residing on campus.

### AIR

Most people traveling by air will initially land at Los Angeles International Airport (LAX), about 2.5 hours away from Santa Barbara. From there, you have the option to either fly to Santa Barbara, travel to Santa Barbara via the Santa Barbara Airbus, or rent a car and drive to Santa Barbara.

### Flying into Santa Barbara

A free UCSB Shuttle Bus will carry those participants staying at the University from the Santa Barbara Airport to their campus residence hall. You will receive the appropriate phone number to call to secure our UCSB Shuttle Bus upon arrival at the Santa Barbara Airport in your confirmation packet. At the end of the conference, the UCSB Shuttle Bus will take on campus participants back to the Santa Barbara Airport for their departure. Those staying in local hotels are responsible for their own transportation from the Airport to their individual hotel; some hotels provide this service so please check when reading the hotel descriptions. If your hotel does not provide this service, you may wish to try SuperRide Airport Shuttle, (805) 683-9636, which offers a local rate ranging from \$9.00 - \$18.00, depending on the location of your destination site in Santa Barbara. Reservations are strongly recommended.

## TRANSPORTATION

### The Santa Barbara Airbus

Provides several daily bus trips from the Los Angeles International Airport to Santa Barbara; Telephone: US/Canada 800-423-1618; 805-964-7759 for those calling outside the US/Canada area, or Fax: 805-683-0307. Please remember that if you will be residing on campus at UCSB and will be using the Santa Barbara Airbus, make sure that your Drop-off site is in Goleta. That way our UCSB Shuttle Bus will be able to pick you up and bring you to campus. You will receive the appropriate number to call to secure our UCSB Shuttle Bus upon arrival at the Goleta Drop-off site in your confirmation packet. At the end of the conference, the UCSB Shuttle Bus will take on campus participants back to the Santa Barbara Airbus Goleta Drop-off site for their departure. Again, those staying in local hotels are responsible for their own transportation from the Santa Barbara Airbus Drop-off site to their individual hotel.

### TAXI

Taxi service is available from the Airport to the local hotels not offering free shuttle service.

### PARKING

Parking is by permit only. If you are staying on campus, identify yourself at the entry gate as a participant in EMC (or DRC/EMC) and you will receive a one-hour temporary permit. You will be notified in your confirmation packet which Residence Hall you have been assigned; drive to that Hall and obtain a long-term permit which you may use for the duration of your stay. Parking is complimentary for those staying in the Residence Hall. Attendees residing off campus can purchase a permit ahead of time by indicating this on the On-Campus Housing Reservation Form; permits may also be purchased at the on-site registration desk.

EMC.....Tuesday through Friday - \$20.00  
DRC/EMC .....Monday through Friday - \$25.00

Attendees residing off-campus CANNOT purchase a multi-day parking permit on-site, only one-day permits will be sold from the gate attendant. Pre-purchasing of parking permits is encouraged to eliminate standing in lines. See Housing Reservation Form to pre-purchase parking permits. Parking citations are issued for cars incorrectly parked or lacking permits. Please note that UCSB is a walking campus and parking is limited. Your parking assignment may not necessarily be close to your assigned Residence Hall or session location.



## PUBLICATION INFORMATION

There are no formal conference proceedings, but the conference abstracts will be published in the *Journal of Electronic Materials (JEM)*. *JEM* encourages both presenters and attendees to submit manuscripts on their work.

*JEM*, a monthly archival publication of TMS and the Institute of Electrical and Electronics Engineers (IEEE), was created to serve as the publication of the Electronic Materials Conference. Throughout the year, *JEM* publishes selected papers presented at the Electronic Materials Conference and welcomes the submission of related electronic materials articles.

The journal contains technical papers detailing critical new developments in the electronics field, as well as invited and contributed review papers on topics of current interest, designed to enable those in the field of electronics to keep abreast of activities in areas vital to their own technical interests.

Articles that appear in *JEM* are reviewed, selected, and edited by peers in the field who serve as voluntary members of the editorial board or the board of associate editors or as section editors. Generally, they are members of the Electronic Materials Committee of TMS or are members of IEEE.

The full conference member \$357, USA Nonmember \$475 and Non-USA Nonmember \$499 registration fees include a subscription to the 2003 *Journal of Electronic Materials* which will include manuscripts of papers presented at the 2002 Electronic Materials Conference. Those who register for one day may order a subscription to the 2003 *JEM* on the registration form

## ORGANIZING COMMITTEES

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Chris Palmstrom  
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*US Air Force*

Joan Redwing  
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Akio Sasaki  
*Osaka Electro-Communication  
University*

Ben Shanabrook  
*Naval Research Laboratory*

Dwight Streit  
*Velocium Inc*

Michael Tischler

Charles Tu  
*University of California*

Christan Wetzel  
*Uniroyal Optoelectronics*

Jerry M. Woodall  
*Yale University*

### Invited Organizers for the 2002 EMC Conference

The Electronic Materials Conference wishes to thank the following invited organizers for their support and contribution to the technical program presented at this year's conference:

Supriyo Bandyopadhyay  
*University of Nebraska*

Brian Bennett  
*Naval Research Laboratory*

Ishwara Bhat  
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### 2002 JOHN BARDEEN AWARD WINNER

The John Bardeen Award, established in 1994, recognizes an individual who has made outstanding contributions and is a leader in the field of electronic materials.

#### Recipient: John M. Poate

Citation: For the development of ion beam techniques for the analysis and modification of new surface properties of several classes of electronic materials.

John Poate is chief technology officer of Axcelis Technologies, a supplier of ion implantation and processing equipment for the semiconductor industry. Dr. Poate earned both a B.S. in physics in 1962 and an M.S. in nuclear physics in 1964 from Melbourne University and a Ph.D. in nuclear physics from Australian National University in 1967. He has authored more than 300 publications in archival journals and holds twelve patents.



*"The TMS John Bardeen Award is particularly prestigious, and it is a great honor for me to receive the award. As a Bell Labs alumnus, the associations with John Bardeen and electronic materials are especially meaningful. I have presented many papers at TMS meetings on thin film reactions, ion implantation in Si and ion implantation metallurgy, laser annealing and diffusion in crystalline amorphous Si. TMS is a unique forum for presenting and discussing those critical areas of electronic materials."*

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 Basic Research     Corporate Management     Quality Engineering     Educator  
 Product Engineering and Design     R & D Engineer     Marketing or Sales     Student  
 Technical/Lab Management     R & D Scientist  
 Process Engineering     R & D Management     Other \_\_\_\_\_

OTHER SOCIETY AFFILIATIONS: \_\_\_\_\_

**EDUCATION TO DATE:**

Name of School	Dates Attended Month/Year–Month/Year	Major Subject/ Engineering Field	Degree Received or Expected Graduation Date: Month/Year
B.S. <input type="checkbox"/> _____			
M.S. <input type="checkbox"/> _____			
Ph.D. <input type="checkbox"/> _____			

REGISTERED PROFESSIONAL ENGINEER?  Yes  No    STATE: \_\_\_\_\_    YEAR OF REGISTRATION: \_\_\_\_\_

**RECORD OF EXPERIENCE:**

(List most recent record of employment. If you do not possess a qualifying degree, please include your last seven years of experience.)

From: \_\_\_\_\_ Title: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 To: \_\_\_\_\_ Nature of Company's Business: \_\_\_\_\_  
 Total Time with Company: \_\_\_\_\_  
 Engineering Responsibilities: \_\_\_\_\_

**TO APPLICANT**

If you have been encouraged to submit this application by a current member of TMS, please complete the following information:

Member's Name \_\_\_\_\_ Member # \_\_\_\_\_

*I agree, if elected, to accept election, and to abide by the TMS bylaws.*

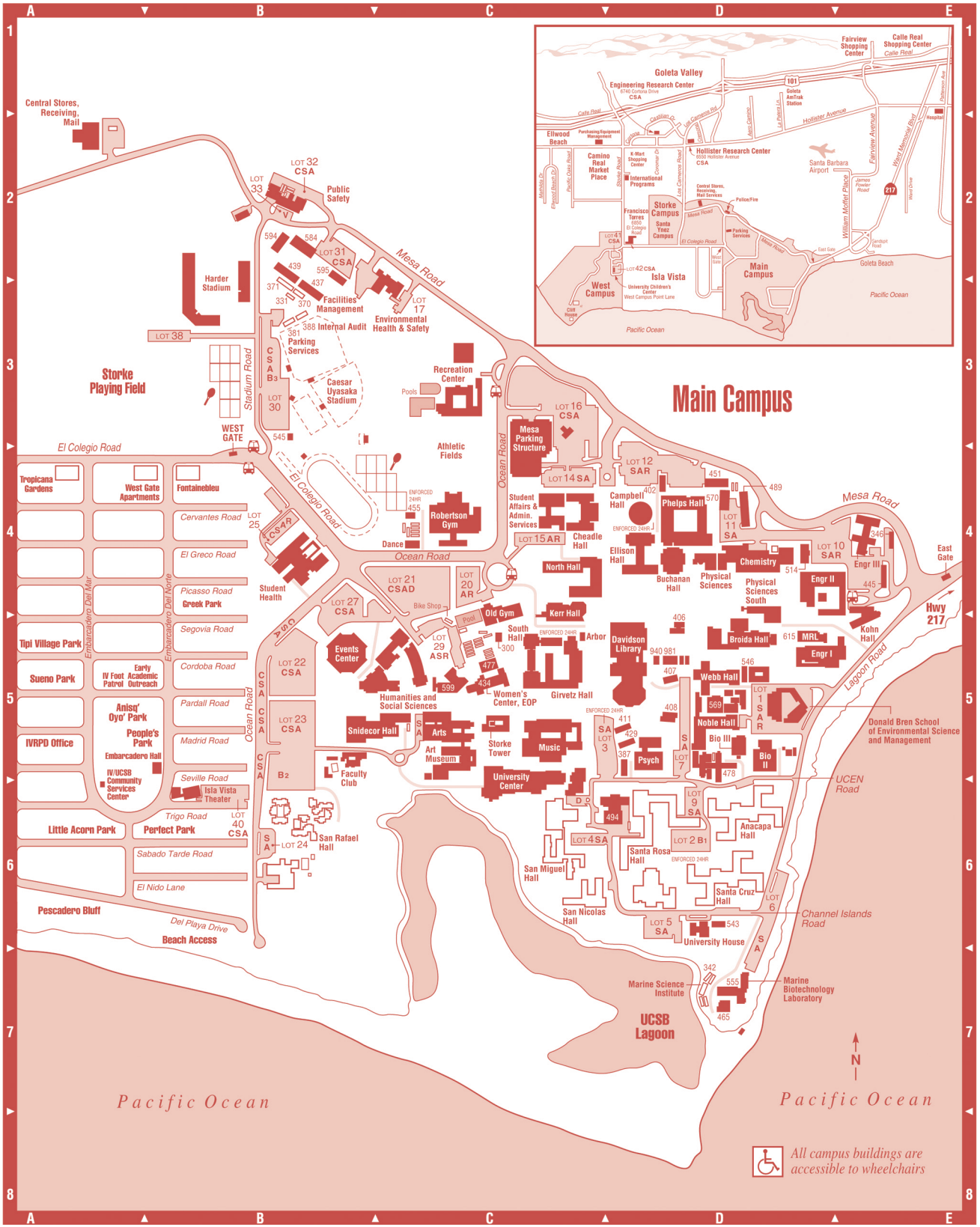
Signature \_\_\_\_\_ Date \_\_\_\_\_


**PREPAYMENT IS REQUIRED (\$90) (checks should be made payable to TMS in U.S. dollars drawn on a U.S. bank)**

- Check enclosed  
 Bill my credit card: (check one)  
 American Express     VISA     MasterCard     Diners Club  
 Credit Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_  
 Cardholders Name \_\_\_\_\_  
 Signature \_\_\_\_\_

**Recruit a friend and earn 180 Appreciation Points for the TMS Reward Auction. Visit [www.tms.org/Society/auction/membrauction.html](http://www.tms.org/Society/auction/membrauction.html) for more information.**

COMPLETE APPLICATION AND MAIL WITH PAYMENT TO: **184 Thorn Hill Road, Warrendale, PA 15086-7514**  
 Phone: 800-966-4867 or 724-776-9000 • Fax: 724-776-3770



 All campus buildings are accessible to wheelchairs