



The Materials Information Society

www.ASM-SCV.org

Santa Clara Valley Chapter

March 2002

Volume 45, Number 7

Wednesday, March 13

Nanotechnology Overview

Barbara Jones

IBM Almaden Research Center

5:30 pm Social/Networking.....6:15 pm Dinner.....7:30 pm Speaker

Meeting Location:

WYNDHAM GARDEN HOTEL
1300 Chesapeake Terrace
Sunnyvale
(408)747-0999

Dinner Cost: ASM Members \$18, Students \$8, Guests \$20
Meal Choices: Chicken Marsala, Chef Salmon, or Vegetarian

RESERVATIONS REQUIRED:

Janine Kardokus at (408) 986-7568 or janine_kardokus@amat.com

\$2 late fee after noon on Monday, Mar 11

March Meeting Sponsor: 



The Materials Information Society

Santa Clara Valley Chapter
P.O. Box 60487
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Meeting Directions

From points south: north on Lawrence Expressway, pass over 237, make the first left (Moffett Park Drive/Baylands Park), then the first left onto Chesapeake Terrace. **From points east or west:** Caribbean Drive (Lawrence Expressway North) exit off 237, first left at Moffet Park Drive/Baylands Park, then left on Chesapeake Terrace. **In either case, once you are on Chesapeake, simply proceed to the end where you'll find The Wyndham Garden Hotel.**

RETURN SERVICE REQUESTED

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Have You Moved Recently?

If so, please remember to correct your address by logging onto the national website, www.asminternational.org, where you can review and update your membership record.

About the Topic

Nanotechnology Overview

Nanostructures may be defined as structures with restricted geometry in two or more dimensions, with accompanying size scales such that quantum effects are predominant. These nanostructures raise fundamental questions which are being addressed by research ranging from very basic to very applied. In the last few years there has been a marked increase in interest in nanostructures from research, government, and industrial points of view. There are currently significant program initiatives from government funding agencies. Just as significantly, commercial industries are facing challenges due to fundamental limits of size in semiconductor and storage devices, to name just two. There has also been an increased realization of the potential of nanostructures for new devices in the future. All of this is happening at a time when advances in lithography and imaging techniques are finally able to create and explore structures on size scales previously only part of the theorists' models.

This talk will give an overview of some forefront research in nanoscience and nanotechnology from theoretical, computational (simulations), and experimental points of view, including the promises of quantum computation and of structures engineered on the atomic scale.

About the Speaker

Barbara A. Jones, Ph.D.
IBM Almaden Research Center

Dr. Jones is the Manager of Theoretical and Computational Physics at IBM's Almaden Research Center in San Jose, CA. Her management and research experience has been in the area of quantum and nano-scale materials, particularly those which have magnetic impurities or nanolayers such as advanced head sensor and media systems. A graduate of Harvard College (AB Physics), Cambridge University, U.K. (Pt III Maths), and Cornell University (MS, Ph.D. Physics), Dr. Jones has been responsible for dozens of publications and invited talks. She has also organized several international conferences. Dr. Jones has held Executive Committee positions in the American Physical Society, and is on the boards of several university and national research centers.

March Meeting Sponsor

ASMI-SCV would like to thank Evans Analytical Group (EAG) for sponsoring our March meeting. The Evans Analytical Group is a worldwide network of laboratories specializing in materials characterization, failure analysis, and contamination identification. EAG's services include Dynamic SIMS, TOF-SIMS, XPS, AES, FTIR, SEM/EDS, FIB, TXRF, SPM, RBS, Raman, and GC/MS. EAG facilities are located in California, Minnesota, Texas, New Jersey, England, Taiwan, and Singapore. We appreciate their support, which enables us to provide quality technical programming to our membership at a reasonable cost.



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SJSU Engineering Open House & Student Outreach

Each semester, the College of Engineering at San Jose State University opens its doors to the public. This Spring's Open House will be on Friday, March 8th, from 9 am to 1 pm. Even if you cannot attend yourself, you could be instrumental in getting a local school to participate with a field trip to the Open House. This is an excellent way for young people (ages 8 through 18) to discover the various engineering disciplines including materials engineering! Why not contact a teacher-friend or your local school and see if they might be interested in participating? Teachers and high school counselors may participate in a concurrent briefing in the College of Engineering, details below.

The contact number is 408-924-3800 for further information and group sign-up. Encourage all to visit the Materials Engineering facilities on the 2nd and 3rd floors of the Engineering Building (maps will be provided).

Spring 2002 SJSU Engineering Open House

Friday, March 8, 2002

Time: 9 am - 1 pm

Place: SJSU Engineering Building, 7th and San Fernando
(Parking at 7th and San Carlos)

Engineering Conference Day

Same time, same place (COE Auditorium E-189)

(for High School and Community College Counselors & Math,
Science, Engineering Teachers)

Revision To Our Chapter Bylaws

Proposed amendments to the "Rules for Government of the Santa Clara Valley Chapter of ASM International" (commonly called "bylaws") are included on pages 5 and 6 of this newsletter. They will also be posted on the Chapter's web site (www.asmi-sc.org) and released to all known member's email addresses. These proposed amendments will be presented to the membership for approval (vote) at the regularly scheduled May 8, 2002 meeting.

S M

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Upcoming Events

Mar 12-14: IEEE-CPMT, "Semiconductor Thermal Measurement and Management Symposium (SEMI-THERM)". Visit cpmt.org/scv/

Mar 13: IEEE-CPMT, "The JEDEC JC15.1 Thermal Standards Subcommittee - An Agent for Promoting a Paradigm Shift in Thermal Simulation". Visit cpmt.org/scv/

Mar 17-21: SPIE, "Smart Structures and Materials along with SPIE's 7th Annual International Symposium on NDE for Health Monitoring and Diagnostics" (San Diego). Visit spie.org/conferences/programs/02/ss/

Mar 19: AIChE - South Bay, "Pulmonary Drug Delivery". Visit www.aiche-norcal.org/meetings.html

Mar 20: ASQ, "Poor Change Management - Why Total Quality Fails". Visit www.asq-svc.org/2002-jan-feb-mar-dinner-mtg.html

Mar 20: WSV, "Changing the Face of Technology". Visit www.wsv.org/index_splash.html

Mar 21: ACS, "Microscale Chemical Analysis - Can We Make a Laboratory on a Chip?". Visit www.scvacs.org/Local_Folder/din_mtg.html

Mar 26: IEEE-LEOS, "Two Topics: Education Outreach and Photonic Clusters". Visit www.silicavalley.com

Mar 26: AIChE - North Bay, "US Refining and Refining Technology Outlook: Assessing the Opportunities and Challenges Ahead". Visit www.aiche-norcal.org/meetings.html

Apr 10: IEEE-CPMT, "The Semiconductor Packaging & Assembly Roadmap". Visit cpmt.org/scv/

Also, visit San Jose State's online discussion board at:
www.engr.sjsu.edu/cgi-bin/cme/mate/mate.cgi

Materials Camp Deadline is March 15!

This is an incredible opportunity for science-oriented high school students! For more information call 1-800-336-5152 or visit www.asminternational.org/content/Foundation/MaterialsCamp/CampOverview.htm (applications are available online).

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The following are proposed amendments to the "Rules for Government of the Santa Clara Valley Chapter of ASM International". Text new to the proposed revision is shown underlined; deleted text is shown as ~~strikeout~~. These amendments will also be posted on the Chapter's web site (www.asm-scv.org).

RULES FOR GOVERNMENT of the
SANTA CLARA VALLEY CHAPTER of ASM INTERNATIONAL

ARTICLE I

Name and Purpose

Name

Section 1- The name of this chapter of ASM International, hereinafter called the Society, shall be the Santa Clara Valley Chapter, ASM International, hereinafter referred to as the Chapter.

Purpose

Section 2- The Chapter is formed for the exclusive purpose of advancing, in its own geographical region, scientific, engineering, technical and practical knowledge, particularly with respect to the manufacture, treatment, selection, processing, testing and use of metals and other engineering materials, through education, research and the compilation and dissemination of information useful to individual members and beneficial to the general public.

ARTICLE II

Limitations and Dissolution

Limitations

Section 1- (a) The Chapter shall operate only under the Charter granted to it by the Society, giving it authority to carry on the work of the Society, subject to the rights, privileges, and obligations provided for in the Constitution of ASM International, hereinafter called the Constitution, and the Rules for the Government of the Society ASM International, hereinafter called the Rules of the Society.

(b) No part of the net ~~income~~ earnings of the Chapter shall inure to the benefit any private individual or company.

(c) No substantial part of the activities of the Chapter shall consist of carrying on propaganda or otherwise attempting to influence legislation. No part of the activities of the Chapter shall consist of participating in (including the publication or distribution of statements) any political campaign on behalf of any candidate for public office.

(d) The Chapter shall not at any time possess powers, exercise authority or engage in activities, either expressly or by interpretation, which are not permitted to be possessed, exercised or engaged in by an organization exempt from Federal Income Tax (Attention is directed to Section 501 (c) (3) of the Internal Revenue Code of ~~1990~~ 1986 or the corresponding provision of any future United States Revenue Law.).

Dissolution

Section 2- If the Chapter should return its charter to the Society for any reason, or should have its Charter revoked, the affairs of the Chapter shall be terminated immediately under the supervision of the Board of Trustees of the Society, hereinafter called the Board, and all funds or other property remaining after the payment of debts and obligations of the Chapter shall be transferred to and paid to the Society.

ARTICLE III

Members and Fees

Members

Section 1- (a) The Rules of the Society govern the requirements and qualifications for all classes within the general and special membership categories. The members of the Chapter shall be those meeting the requirements of the Society who have been assigned to it, either at their own request or by the Society for geographical reasons. ~~Classes of special members and qualifications for special membership shall conform to those stipulated in the Rules of the Society.~~

(b) ~~There shall be no bar to membership~~ Membership in the Chapter shall not be denied because of race, creed, color, sex, citizenship or country of origin.

Fees

Section 2- (a) Fees for ~~individual members and student members~~ shall be those stated in the Rules of the Society except as noted in Article III, Section 2- (b).

(b) The Executive Committee of the Chapter, as defined in Article VI, shall set the ~~The annual fee for its Chapter Sustaining~~ sustaining members of the Chapter shall be set by the Executive Committee and. The fee shall not be less than the minimum established by the Society.

ARTICLE IV

Chapter Meetings, Chapter Year and Fiscal Year

Number and Subject

Section 1- (a) Chapter meetings, held at such times and places as the Executive Committee shall determine, shall be devoted to educational, technical, engineering or scientific purposes.

(b) There shall be no charge for attending the technical or educational portion of any Chapter meeting, and such meetings shall be open to the public.

(c) ~~No exhibitions shall be held by the~~ The Chapter shall not hold exhibitions without specific authority from the Board, ~~and dates for regional~~ Regional meetings,

conferences or seminars shall be cleared with the Managing Director of the Society before final plans are made.

Annual Business Meeting

Section 2- The annual business meeting of the Chapter, hereinafter referred to as the Annual Meeting, shall be held during the month of May of each year. The Executive Committee shall fix the day and hour date, time and place of the Annual Meeting and the place thereof shall be fixed by the Executive Committee members shall be notified at least 30 days prior to the Annual Meeting. The Executive Committee shall prepare ~~an a preliminary~~ a preliminary Annual Report for this meeting, and shall forward a final copy of ~~each said~~ report to the National Secretary of ASM International on or before the last day of June in each year.

Chapter Year and Fiscal Year

Section 3- The chapter year shall begin on July 1st and end June 30th of the following year.

Section 4- The fiscal year of the Chapter shall begin on July 1st January 1st and end on June 30th December 31st. A fiscal year-end report and a new year budget shall be forwarded to ASM International on or before the 15th day of February in each year.

Notice of Meetings

Section ~~4~~ 5- Written notice of each meeting of the Chapter, stating the time, place and purpose of the meeting, shall be mailed by the Chapter to each member of the Chapter, at the member's designated address as it appears in the Chapter's records. Written notice may be in the form of postal, email or FAX communications.

Voting at Meetings

Section ~~5~~ 6- Each member of the Chapter shall be entitled to cast one vote on all questions arising at meetings of the Chapter. A Sustaining Member, if a firm or corporation, shall designate an individual to represent it, and such individual shall be entitled to cast one vote for each firm or corporation represented by him or her. The application for membership of such firm or corporation shall contain the name of the individual designated to be the representative, and such designation shall continue in force until another representative is designated in writing by such firm or corporation.

Quorum

Section ~~6~~ 7- Five percent (5%) of the general membership of the Chapter or thirty-five (35) voting members in good standing with the Chapter, whichever is less, shall constitute a quorum at any meeting of the Chapter at which business is to be transacted. The act of a majority of the voting members in attendance at any meeting at which a quorum is present shall constitute the act of the Chapter.

ARTICLE V

Officers

Designations

Section 1- (a) The Officers of the Chapter shall consist of a Chair, a Vice-Chair, a Secretary and a Treasurer. The Chair and Vice-Chair shall have served previously as elected members of the Executive Committee and shall not be available for immediate re-election to the same office unless they have been completing the unexpired term of their predecessor.

(b) The Chair shall preside at all meetings of the Chapter and at all meetings of the Executive Committee. The Chair shall, in general, act as chief executive of the Chapter, subject at all times to the approval of the Executive Committee, and have such other powers and duties as may be prescribed by the Executive Committee.

(c) The Vice-Chair's principal duty shall be to manage the technical and social program for the respective Chapter Year. In addition, the Vice-Chair shall perform the duties of the Chair in the event that the Chair is absent or unable to act, and shall have such other powers and duties as the Executive Committee may prescribe.

(d) The Secretary shall keep full minutes of all meetings of the Chapter and of the Executive Committee, and shall have custody of all papers and records of the Chapter. ~~He~~ The Secretary shall perform such other duties as are imposed by ~~the~~ the Constitution the Rules of the Society, and in addition, shall have such powers and duties as the Executive Committee may prescribe. The Secretary shall submit a report in writing of each meeting of the Chapter and/or the Executive Committee within thirty (30) days after the meeting to the National Secretary and shall show the attendance of members and guests, the business transacted, including papers and discussions presented there and any other ~~matters which matters that~~ the Chapter shall deem advisable to report.

(e) The Treasurer shall receive, hold and disburse all funds of the Chapter. The Treasurer shall deposit the funds of the Chapter in such financial institution as may be designated by the Executive Committee. In addition to submitting financial statements at each Executive Committee meeting, the Treasurer shall make an annual report at the Annual Meeting which shall include, among other things, a detailed account of the funds received by the Chapter and the sources thereof, a detailed account of the funds expended by the Chapter, the purposes for which they were expended, and such other matters as the Executive Committee may require. In addition to the above duties, the Treasurer shall have such other powers and duties as the Executive Committee may prescribe.

Tenure of Office

Section 2- The results of the election of officers shall be announced to the members of the Chapter in ~~April~~ May of each Chapter Year. The term of office of each officer shall be one year and shall begin on July 1st of the year of the election and shall terminate the following June 30th. In the event of a vacancy in the office of the

Proposed amendments, cont.

Chair, the Vice-Chair shall complete the unexpired term. In the event of a vacancy in any other office, the Executive Committee shall elect a successor to complete the unexpired term. The Chair shall not be eligible for immediate re-election to the same ~~any~~ office but may be elected to any office after a lapse of not less than one year.

ARTICLE VI
Executive Committee
Composition

Section 1- The Executive Committee of the Chapter shall consist of at least nine (9) members. The Chair, Vice-Chair, Secretary and Treasurer of the Chapter shall be members of the Executive Committee by virtue of their offices. All post-secondary educational institutions within the geographical jurisdiction of the Chapter which offer courses of study in metallurgy, materials science or materials engineering shall be entitled to one student representative on the Executive Committee. This representative may be a graduate or undergraduate student. Student representatives shall have the same responsibilities and privileges as the other members of the Executive Committee. ~~All members of the Executive Committee shall be elected by the members of the Chapter. The members of the Chapter shall elect all members of the Executive Committee.~~ The retiring Chair of the Chapter automatically becomes a member of the Executive Committee for a period of one year. Any positions unfilled or that become vacant during the year, may be filled by vote of the Executive Committee.

Tenure of Office of Executive Committee Members

Section 2- The term of office of a student representative shall be one year. All other elected members of the Executive Committee shall serve thereon for a period of three (3) years. They shall be divided into three (3) classes. Each class, insofar as possible, shall contain the same number of elected members, and the terms of the three (3) classes shall expire in successive years to the end that one third of elected members of the Executive Committee may be elected annually. In ~~April May~~ of each year, the Chapter shall announce the successors to the members of the Executive Committee whose terms expire and those elected to fill newly created executive positions. The members so elected shall take office on July 1st of the year of the election and shall hold office until June 30th of the third year thereafter.

Involuntary Retirement

Section 3- An Executive Committee member shall be automatically retired at the start of any ~~business year chapter year~~ when his or her attendance at the regularly scheduled Executive Committee meetings during the previous ~~business year chapter year~~ falls below fifty (50) percent. The Executive Committee shall note such retirements in the minutes of the first regularly scheduled meeting of each ~~business year chapter year~~. The Secretary shall then notify the delinquent member of his/her automatic retirement. At its discretion, the Executive Committee may reinvite any retired Executive Committee member to again become a member of the Executive Committee to complete their respective term of office. On the approval of the Executive Committee, a fellow member may become inactive for a specified period of time. Such inactivity shall not be considered an absence from meetings of the Executive Committee.

Vacancies

Section 4- The Executive Committee may fill by general election any vacancy occurring in its membership if the term of the unexpired vacancy is greater than six (6) months. Any member elected to fill a vacancy shall complete the unexpired term of the member being succeeded.

Meetings

Section 5- Meeting of the Executive Committee shall be held at such times and places as it may designate and upon such notice as it may prescribe. A majority of the members of the Executive Committee or eight (8) Executive Committee members, whichever is less, shall constitute a quorum at any meeting of the Committee. The act of a majority of the members of the Executive Committee in attendance at any meeting at which a quorum is present shall constitute the act of the Executive Committee, except as otherwise provided in ~~the constitution~~ the Rules for Government of the Santa Clara Valley Chapter of ASM International, hereinafter referred to as the Document.

Creation of Committees

Section 6- The Executive Committee shall create such committees as it may deem advisable, shall determine the number of members and shall define the powers and duties of each committee so created. ~~The members of each committee shall be appointed by the Chair shall appoint the members of each committee.~~ They shall take office immediately upon their appointments and shall hold office until the close of the ~~fiscal chapter year of the Chapter~~, or for such shorter period as the Executive Committee may prescribe at the time of creating the committee. The Chair shall be an ~~ex officio~~ ex officio member of each committee.

ARTICLE VII

Nomination and Election of Officers and Executive Committee Members
Nominating Committee

Section 1- No later than the first calendar year meeting of the Chapter, a nominating committee shall be appointed each year by the Chapter Chair. This committee shall consist of a Chair and at least two other members.

Nomination

Section 2- The Nominating Committee shall nominate at least one candidate for each office and at least one candidate for each open position on the Executive Committee ~~which~~ that is to be filled by election at the April May meeting of the

Chapter. Nominations shall be submitted at a regular meeting of the Chapter preceding the April May meeting. The Nominating Committee shall solicit prospective student representatives from participating post-secondary institutions ~~which~~ that offer courses of study in metallurgy or materials science. Where the school has a Student Chapter of the Society, or some organization of materials science students, this group shall be asked to select a representative, and submit this name to the Nominating Committee. Where there is no student organization as described above, the Nominating Committee shall request faculty members to submit names of students who express interest in serving on the Executive Committee. Additional nominations for any office or place on the Executive Committee may be made by written petition, signed by no less than twenty-five (25) voting members of the Chapter. ~~Petitions must be received by the Secretary of the Chapter. The Secretary of the Chapter must receive petitions~~ within 15 days from the time the Nominating Committee has submitted its recommendations. Each nominee shall be a member of the Chapter in good standing and shall have given consent to serve, if elected, in the position for which he or she is nominated.

Election

Section 3- At least ten (10) days prior to the April May meeting, a printed ballot or typewritten ballot shall be mailed to each voting member of the Chapter. Such ballot shall contain the names of all nominees together with appropriate instructions as to the manner of voting. Ballots shall be clearly marked for return to the Chair of the Nominating Committee before the opening of the April May meeting. At that meeting, the Nominating Committee shall open and count all ballots ~~which shall have been~~ received by the Committee or any of its members. The nominee for each office receiving the highest number of votes shall be declared elected. The Chair of the Nominating Committee shall announce to the meeting the names of the persons elected, but shall not announce the number of votes cast for any nominees. In the event that less than thirty-five (35) of the eligible ballots are returned, the nominees receiving the highest number of votes for each office shall be declared elected by acclamation.

ARTICLE VIII
Financial Matters
Dues

Section 1- Each member of the Chapter shall pay the dues fixed by the Constitution ~~of ASM International~~ in the manner provided therein, and at the time or times fixed by the Board of Trustees of the Society.

Compensation of Officers and Employees

Section 2- The Executive Committee shall not compensate any officer or member of the Chapter for services rendered to the Chapter by such officer or member unless such services are normally contracted. The Executive Committee may authorize the payment of reasonable expenses incurred by any officer, member or employee of the Chapter in the discharge of his or her office or while conducting Chapter business.

Disbursements

Section 3- The Executive Committee shall approve all disbursements as part of the annual budget or by special approval noted in the minutes of Executive Committee meetings. All checks and other instruments for the disbursement of the Chapter funds shall be drawn in the name of the Chapter, and shall be signed by one of the four officers of the Chapter, principally the Treasurer, ~~and countersigned by one of the three remaining officers. No such check or instrument shall be signed and countersigned by the same person.~~

ARTICLE IX
National Constitution

The provisions of the Constitution ~~of ASM International~~ are incorporated in this ~~Constitution Document~~, to the extent that they are applicable to the Chapter, and nothing contained herein shall be construed to be contrary to or inconsistent with the Constitution ~~of ASM International~~.

ARTICLE X

Amendment and Repeal

~~These~~ This ~~Rules of Government Document~~ Document have been adopted, and ~~they~~ may be amended or repealed, by the affirmative vote of a two-thirds majority of the members of the Chapter present at any meeting of the Chapter which is called and conducted in accordance with the provisions contained in Article IV herein. The notice of such meeting shall clearly state that the Rules of Government ~~of the Santa Clara Valley Chapter of ASM International~~ are to be amended or repealed, as the case may be. ~~And such~~ Such notice shall be given at least thirty (30) days prior to the ~~mailing~~ meeting date. In the case of its amendment, ~~such notice shall be accompanied by a copy of the proposed amendment a copy of the proposed amendment shall accompany such notice.~~ The motion of the Chapter in amending or repealing the ~~Rules of Government Document~~ shall become effective immediately, unless the Chapter at the time of taking such action otherwise provides.

ARTICLE XI
Effective Date

The ~~These~~ amended or repealed Document ~~Rules~~ shall become effective immediately after it ~~has~~ they have been adopted in accordance with Article X, ~~have~~ has been reviewed and accepted by the Managing Director of the Society for the Board and ~~have~~ has been issued to all members of the Chapter.

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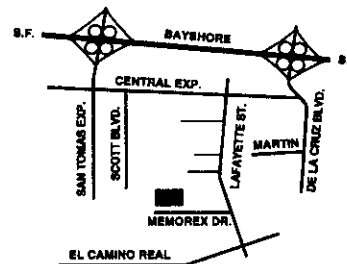
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2001-2002 ASMI Santa Clara Valley Chapter Information

Officers

Chair	<i>Wendy Chung is off to Singapore. Best wishes, Wendy! Jim Knowles is Acting Chair.</i>		
Vice-Chair	Jim Knowles	Grand Kauai Consulting	(650)728-3786 jim@grandkauai.com
Treasurer	Janine Kardokus	AKT/Applied Materials	(408)986-7568 janine_kardokus@amat.com
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Executive Committee

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Special Thanks to our ASMI-SCV Sustaining Members:

Charles Evans & Associates	Charles Evans, Jr.	San Mateo
CSU—Fresno	Henry Madden	Fresno
R.L. Engineering	Richard Lund	Placerville
Vivid Incorporated	John H. Comeau	Santa Clara

Executive Committee Meetings: 4th Wednesday of Sep, Nov, Jan, Mar, and May at 6:30 pm, Round Table Pizza at El Camino & 237. Any member can attend! Call Jim Knowles at ((650)728-3786 to confirm the schedule and reserve a seat at the table.

2001-2002 Technical Program

Sept. 12	Materials Issues for Electricity Generation in the Near Future <i>Dr. John Stringer, EPRI, Palo Alto</i>	<i>Past Chair's Night</i>
Oct. 10	Thin Film Materials Science at Stanford <i>Professors W.D. Nix and B.M. Clemens, Stanford University</i>	
Nov. 14	Wafer Level Packaging <i>Luu Nguyen, National Semiconductor</i>	
Dec. 12	Underwriters Laboratories in Santa Clara <i>Martha Martinez, Underwriters Laboratories</i>	<i>Companion's Night</i>
Jan. 9	Thin Film Metallurgy from the Metals Supplier's Point of View <i>Daniel Marx, Praxair MRC</i>	<i>SCV Fellow's Night</i>
Feb. 13	Synthesis Techniques for Advanced Nanocrystalline Ceramics <i>Olivia Graeve, San Jose State University</i>	<i>Joint with ACerS</i>
Mar. 13	Nanotechnology Overview <i>Barbara Jones, IBM Almaden Research</i>	
Apr. 10	Materials Applications for the Airborne Laser Program <i>Al Gegaregian, Lockheed Martin Missiles and Space</i>	<i>Joint with SAMPE</i>
May 8	Update on Battery Technology <i>Fritz Kalhammer, Consultant</i>	<i>Awards Night</i>
