

## Wednesday, December 12

### Underwriters Laboratories in Santa Clara

Martha Martinez  
Underwriters Laboratories

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: London Broil, Chef's Salmon, or Vegetarian*

**RESERVATIONS REQUIRED:**  
Janine Kardokus at (408) 986-7568 or [janine\\_kardokus@amat.com](mailto:janine_kardokus@amat.com)  
**\$2 late fee after noon on Monday, Dec 10**

December Meeting Sponsor:  **BUEHLER**



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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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If so, please remember to correct your address by logging onto the national website, [www.asminternational.org](http://www.asminternational.org), where you can review and update your membership record.

## About the Topic

### Underwriters Laboratories in Santa Clara

We've all grown accustomed to seeing the "UL" symbol on everything from toasters to power saws to computers, but how much do you really know about Underwriters Laboratories? OK, so you may know that Underwriters Laboratories Inc. (UL) is an independent, not-for-profit product safety testing and certification organization that has been testing products for public safety for more than a century. You may also know that UL was founded in 1894, and that they hold the undisputed reputation as the leader in U.S. product safety and certification. You may even know that today their services extend to helping companies achieve global acceptance, whether it is an electrical device, a programmable system, or a company's quality process. But did you know that one of UL's testing facilities is located right here in the heart of the Silicon Valley? UL Santa Clara evaluates innovative products, such as state-of-the-art computers and medical diagnostic equipment, as well as established products, like toasters and irons.

This presentation will include a brief description of the important facts in the development and evolution of UL and how its work has improved our quality of life. The audience will learn about UL's Mission and Values as well as UL's unique contribution to industry and society. Time permitting, the presentation may even cover some of the interesting technical work that goes on right here in the UL Santa Clara Division.

## About the Speaker

### Martha Martinez, Underwriters Laboratories

Martha Martinez graduated from San Jose State University in 1996 with a degree in Chemical Engineering. After graduation, she worked for Xicor (a semiconductor company in Milpitas) as a process engineer. For the last four years, she has worked for Underwriters Laboratories as a project engineer evaluating printed wiring boards.

### December Meeting Sponsor

ASMI-SCV would like to thank Buehler for sponsoring our December meeting. Buehler is the world's premier manufacturer of scientific equipment and supplies for use in materials analysis. Buehler's products are used throughout the world in manufacturing facilities, quality laboratories, and universities to enable material characterization, ensure quality, and perform materials research. We appreciate Buehler's support, which enables us to provide quality technical programming to our membership at a reasonable cost.

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## Materials Camp 2001 Report

As you may know, the ASM International Foundation runs an annual "Materials Camp" for high school students interested in learning about materials science. What you may not know is that this year the event was attended by 3 students representing the Santa Clara Valley Chapter! This is quite impressive as the camp is attended by only 60 of the "best and brightest" students selected from nationwide applications each year. **The delegates from ASMI-SCV for Materials Camp 2001 were: Shaily Bhargav, Julie Chang, and Peggy Chung. Congratulations!**

What exactly is the Camp? It is a weeklong academic camp featuring highly interactive, lab-based activities tailored to individual student interest areas. Evening social activities include a materials "sub-theme" (i.e. tours of local attractions and industry, etc.). Students "graduate" during a special event with chapter, ASM, and Foundation leaders, where they have the opportunity to network and explore career options.

This year's camp began with a welcome reception and dinner where students, faculty and staff got acquainted. The second day opened with an introduction to materials of today and tomorrow, along with a basic overview of materials failures and why/how they occur. The students were then organized into small groups and teamed with a Volunteer Faculty "Materials Mentor" who worked with them throughout the week. A variety of experiments and lab activities such as metallography, mechanical testing, light microscopy, fractography, scanning electron microscopy, image analysis, and chemical analysis were used. The camp concluded with the teams presenting a summary of their findings, including recommended corrective action, to members of the ASM Foundation Board, ASM International Board, the entire Materials Mentor Faculty, and their student peers. The program ended with a graduation ceremony and a dinner.

Clearly Materials Camp is an excellent example of one of the most important educational and outreach activities within ASM International - yet another reason to be proud to be a member! If you know of a student who might be interested in this experience next summer, watch this space in the coming months for application information.

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## Yearbook Advertising

The Yearbook Committee is presently developing a list of potential advertisers for the upcoming edition. If you have a business and might be interested in advertising or know of a company that might be interested, please contact Stacy Ewert at [stacy.s.ewert@lmco.com](mailto:stacy.s.ewert@lmco.com) or (408)756-4360. Advertisement in the Chapter yearbook is one of the best ways for companies to target an audience directly involved in the selection and use of materials, processes and testing. Proceeds from the yearbook help towards funding our Chapter's activities that are focused on advancing the knowledge and education of our members.




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## Upcoming Events

**Dec 12:** ASQ Statistics Task Group, "Baldrige Award - an Assessment After 14 Years of Existence". Visit [www.asq-svc.org/statistics\\_meeting.html](http://www.asq-svc.org/statistics_meeting.html)

*Events are light this month since most groups don't plan December activities. Here's some early news on professional society activities in 2002:*

**Jan 9:** ASQ Statistics Task Group, "Permutation Tests for Repeated Measurements". Visit [www.asq-svc.org/statistics\\_meeting.html](http://www.asq-svc.org/statistics_meeting.html)

**Jan 16:** ASQ, "How Do You Create Award Winning Teams in Your Company?" Visit [www.asq-svc.org/future\\_dinner\\_meeting.html](http://www.asq-svc.org/future_dinner_meeting.html)

**Jan 17:** ACS, "From Chiral Synthesis to Glaciers and Galaxies, It's All Chemistry". Visit: [www.scvacs.org/Local\\_Folder/din\\_mtg.html](http://www.scvacs.org/Local_Folder/din_mtg.html)

**Jan 22:** AIChE, "Genentech Plant Tour". Visit [www.aiche-norcal.org/meetings.html](http://www.aiche-norcal.org/meetings.html)

*Happy Holidays & New Year! Watch this space and [www.ASM-SCV.org](http://www.ASM-SCV.org) for more professional society activities coming in 2002.*

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## 2001-2002 ASMI Santa Clara Valley Chapter Information

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### Executive Committee

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<b>Newsletter Editor:</b>	Scott Dickerson	Applied Materials	(408)584-1013	scott_dickerson@amat.com

### Special Thanks to our ASMI-SCV Sustaining Members:

Charles Evans & Associates	Charles Evans, Jr.	San Mateo
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**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 Wendy Chung at (408) 256-8614 to confirm the schedule and reserve a seat at the table.

## 2001-2002 Technical Program

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