



Calendar of Events

Tuesday, March 21, 2006

Los Angeles Chapter General Meeting
Title: Metallography of Advanced Materials
Time: 6:00 P.M.

Thursday, March 23, 2006

South Bay Chapter General Meeting
Title: Microstructural Evolution and Thermal Stability of Al-Ce-Ni Ternary Eutectic
Time: 6:00 P.M.

Thursday, March 23, 2006

San Fernando Valley Chapter General Meeting
Title: Inventing Under Pressure
Time: 6:30 P.M.

Thursday, March 9, 2006

Orange Coast Chapter General Meeting
Title: SimDesigner
Time: 6:00 P.M.

Baseball Nite: Angels Vs. Mariners

May 12, 2006 7:00 P.M.
Contact wwyllie@mmm.com for details

Advance Notice: Summer Golf Party!!!

Monday, June 12, 2006
Candlewood Country Club
Sign up at www.asmwest.com

Upcoming Conferences & Expositions 2006

International Brazing & Soldering Conference
April 24-26, 2006 - San Antonio, Texas
<http://www.asminternational.org/ibsc/>

International Conference on Shape Memory and Superelastic Technologies
May 7-11, 2006 - Asilomar, California
<http://www.asminternational.org/shape/>

International Thermal Spray Conference & Exposition (ITSC)
May 15-18, 2006 - Seattle, Washington
<http://www.asminternational.org/seattle/>

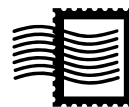
5th International Surface Engineering Congress
May 15-17, 2006 - Seattle, Washington
<http://www.asminternational.org/seattle/>

17th AeroMat Conference & Exposition
May 15-18, 2006 - Seattle, Washington
<http://www.asminternational.org/seattle/>

Materials Science & Technology Conference (MS&T)
October 16-19, 2006 - Cincinnati, Ohio
Call for Papers deadline March 15, 2006
<http://www.matscitech.org/>

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ASMQuadNews@hotmail.com

Los Angeles Chapter



Metallography of Advanced Materials

By George F. Vander Voort
 Director, Research & Technology
 Buehler Ltd, Lake Bluff, IL 60044

In recent years, a host of new materials, often called "advanced materials" due to the more exotic nature of their composition and applications, have been developed and introduced into the manufacturing stream of useful products. Defining exactly what constitutes an advanced material is not simple and can stimulate extensive arguments. The talk will discuss the specimen preparation problems associated with a number of interesting new materials. The list includes powder metallurgy alloys that exhibit unique property combinations achievable only using powder technology, ceramics, composites, shape memory alloys, intermetallics, high-temperature alloys, and ultra-high strength alloys.

George Vander Voort, Director of Research and Technology for Buehler Ltd., is a graduate of Drexel University and Lehigh University with a background in metallurgy and materials science and 29 years experience in the specialty steel industry. A past president of the International Metallographic Society and past chairman of ASTM Committee E-4 on Metallography, George is the USA representative to ISO on metallography. He has six patents and over 240 publications including Metallography: Principles and Practice (McGraw-Hill, 1984; ASMI, 1999), the ASM video course, Principles of Metallography, and Buehler's Guide to Materials Preparation.

WHERE:	So. Cal Gas Co. Energy Resource Center 9240 East Firestone Blvd. Downey, CA 90241
TIME:	5:45 P.M. - Social 6:15 P.M. - Dinner 6:45 P.M. - Update from Risha Bera - Materials Camp 7:00 P.M. - Technical Talk
WHEN:	Tuesday, March 21, 2006
COST:	\$17 with RSVP \$20.00 without RSVP \$8.00 students with ID
RSVP:	ssosa@SempraUtilities.com or wyllie@mmm.com

South Bay Chapter

Microstructural Evolution and Thermal Stability of Al-Ce-Ni Ternary Eutectic

Join us this month as Dr. Eric Fodran Materials & Processes group - Northrop Grumman Corporation as he discusses novel developments in lighter weight materials to replace the more costly and heavier materials currently used, which can operate at elevated temperatures.

Eric received his PhD in Materials Science and Engineering from the University of Florida Gainesville, in 2001, MS degree in Materials from Cal Poly San Luis Obispo in 1997, and BS in Metallurgy from Cal Poly San Luis Obispo in 1994, and is currently working on the Joint Strike Fighter program at Northrop Grumman, focusing his efforts towards process development and support of aircraft design and fabrication.

Previous studies on aluminum based binary eutectic systems have proven that the aluminum alloy system shows promising potential for satisfying the need for lighter weight materials that can operate at elevated temperatures, and has motivated the investigation of the solidification and thermal stability of the Al-12 wt%Ce-5 wt%Ni ternary eutectic performed in this investigation.

The solidification behavior of the Al-Ce-Ni ternary eutectic was conducted via solidification of various compositions at and above the eutectic composition in a copper chill mold, thus allowing the observation of various solidification rates on a single ingot. After casting the ingots were analyzed for the composition of phases in the microstructure via X-ray diffraction, and the distribution of the phases determined by scanning electron microscopy. The thermal stability of the microstructure was also studied.

WHERE:	Cirivello's 4115 Viking Way, Long Beach On the diagonal between Bellflower & Carson
TIME:	6:00 P.M. - Social/Dinner 7:00 P.M. - Speaker
WHEN:	Thursday, March 23, 2006
COST:	\$5 - Includes all the Pizza and Beer/Sodas you can consume
RSVP:	Marc Kashinsky (805)271-2242 mlkashinsky@arcturusmfg.com

San Fernando Valley Chapter

Inventing Under Pressure
E.P. Industries, Inc.

Eddie Paul is known in Southern California as "Hollywood's best kept secret". His past exploits include stuntman, stunt producer and coordinator, diver for Jacques Cousteau, custom car builder for numerous feature films and TV programs, inventor, and founder of E.P. Industries. E.P. Industries, Inc. is a successful research, development, and prototype manufacturing company where Paul has developed innovative designs in engines, pumps, compressors, optics, electronics, camera movements and housings, hydraulic systems, and animatronics. Paul is currently a consultant for the Department of Defense, Rockwell Scientific, Mission Research, SOCOM, NRL and many others. The holder of numerous U.S. and international patents, Paul guides and assists a highly qualified team of engineers in a wide variety of programs and projects. His high profile involvement with the movie studios in the creation of vehicles and props has earned him the reputation as a "can do" personality taking on all challenges regardless of time constraints or degree of difficulty.



WHERE:	Marie Callender's The Garden Room 19310 Business Center Dr., Northridge, CA 91324 (on Tampa south of Nordhoff)
TIME:	6:30 – 9:00 P.M.
WHEN:	Thursday, March 23, 2006
COST:	\$15 per person
Questions?	Scott Schroeder sschroeder@exponent.com

Baseball Nite: Angels vs. Mariners



Friday, May 12th 2006, 7 PM
Anaheim Stadium

Contact Bill Wyllie for details:
wwyllie@mmm.com

Welcome New Members!

The ASM Quad Chapters welcome the following members who have joined our ranks this month.

Los Angeles Chapter

Ryan J. Diaz
Jay Lite

Orange Coast Chapter

Dennis P. Trumpinski

San Fernando Valley Chapter

Lev Berkovich
Atoosa Lotfi

South Bay Chapter

Chris McCauley, P.E.



Advance Notice: Summer Golf Party!!!

Monday, June 12, 2006
Candlewood Country Club
Sign up at
www.asmwest.com

Orange Coast Chapter

A talk will be given by MSC Software Corporation's representative (and Chapter Chairperson) Ian Nieves and will feature MSC's innovative and comprehensive CATIA - based modeling software, SimDesigner.

WHERE:	Fish Market Irvine Spectrum
TIME:	6:00 – 9:00 P.M.
WHEN:	Thursday, March 9, 2006
RSVP:	Ian Nieves inieves@uci.edu

Sustaining Members and Corporate Sponsors

We thank our Sustaining Members and Corporate Sponsors for their support of the 2004/05 season.

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San Fernando Valley Chapter

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Rockwell Scientific Company

South Bay Chapter

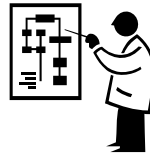
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Corporate sponsors support the local chapters directly and receive recognition, but do not receive ASM membership benefits.



Employment

In future newsletters, we will use this space to post information about open positions. If you would like to advertise an opening at your company, please email us at ASMQuadNews@hotmail.com.

Job seekers and corporations seeking employees can check out the resources on our website or the national website.

Quad Chapter Job Website

<http://www.asmwest.com/general/joblead.html>

ASM International Career Center

<http://www.asminternational.org/CareerCenter>

Advertising Rates

We are pleased to offer advertising space within this newsletter. Take advantage of this opportunity to reach over 1000 materials professionals in the LA area.

Business Card (1/10 page)	\$20
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back 1/2 page	\$150

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ken@artistryinmotion.com

South Bay Chapter Chair
Marc Kashinsky
mlkashinsky@hotmail.com



We're on the Web!
Visit us at:
www.asmwest.com

ASM Quad Chapter Newsletter
18600 Oxnard St.
Tarzana, CA 91356

March 2006

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