

Calendar of Events

See www.asmwest.com for updates

JUNE

LA/South Bay Joint Chapter General Meeting

Tuesday, June 21: "CMC Armor Materials" Jacob J. Stiglich, PhD, Ultramet, 5:30 pm, The Proud Bird, on Aviation near LAX

Please look for more information on www.asmwest.com



EP Laboratories, Inc.

... the solution to your testing needs

Independent Lab

<p>Indentation Testing Hardness, Elastic Modulus Creep, Fracture Toughness</p> <p>Scratch Testing Adhesion, Scratch Resistance</p>	<p>"Push-Pull" Testing Adhesion, Seal/Peel Strength Break/Rupture, Creep/Relaxation etc...</p> <p>Coefficient of Friction Static & Dynamic</p>
<p>Tribology Profilometry Ellipsometry</p>	

196 Technology Drive, Suite A, Irvine CA 92618
949-387-6555 info@ep-labs.com www.ep-labs.com



**Los Angeles
Chapter**

The Los Angeles Chapter of ASM International thanks its sustaining members:

[SEAL Laboratories – El Segundo](#)

[RTI Pierce Spafford Metals Co. – Garden Grove](#)

[VACCO – South El Monte](#)

[Engineering Systems, Inc. – Foothill Ranch](#)

[Solar Atmospheres of California](#)

San Fernando thanks its Sustaining Members	
	
	<u>Pratt Whitney</u> <u>Rocketdyne</u>
	

Table of Contents

Calendar.....	page 1
General Meeting Notices.....	pages 2-6
Advertising Rates.....	page 8
Educational Opportunities.....	pages 3, 7



CAL NANO

TOMORROW'S MATERIALS TODAY

<p>SEM SERVICES</p> <p>MECHANICAL TESTING</p> <p>EDM (WIRE & SINKER)</p> <p>CNC MACHINING</p> <p>SINTERING (SPS & HOT VAC)</p>	<p>ADVANCED MATERIALS (POWDER & BULK)</p> <p>LIGHT & SUPER ALLOYS</p> <p>TOOL STEELS</p> <p>THERMAL SPRAY COATINGS</p> <p>CERMETS / CARBIDES</p>
--	--

WWW.CALNANOCORP.COM

ASM Los Angeles Chapter

**METALLURGY FOR THE NON-
METALLURGIST
ASM Course 0135**

The chapter will be offering this Continuing Education Course starting Wednesday evening, September 7, 2011 at the Energy Resource Center of the Southern California Gas Company, 9240 Firestone Boulevard, Downey.

The course carries 3 CEU Official Credits. The educational materials have prepared by ASM and approved by the International Council on Continuing Education.

The course instructors will be two outstanding experienced metallurgical engineers from local industry:

Dr. Michael Hahn.....Northrop Grumman
Dr. Michael O'Brien.....Aerospace Corporation

Tuition is \$1575.

Tuition covers 15 lessons, a large notebook full of useful information and membership for one year in ASM.

As an alternative, the contents of the big notebook can be obtained on a compact disc.

Details of the class schedule are up to the students. Usually, they choose to have two lessons per session; this means the class meets 8 times and is completed before the big holidays.

The course includes 15 take-home tests and a Final Exam. The Final Exam is taken on-line. Many instructions are given to take the test this way.

Interested persons should discuss this course with their supervisors.

For more information and to enroll in the course, contact:

Dr. John R. Ogren drjogren@aol.com
424 228 2708

ADVANCED MATERIALS &
TECHNOLOGY SERVICES, INC.

Robert V. Gansert, Ph.D.
President

337 Longbranch Rd.
Simi Valley, CA. 93065
Tel (805) 581-6045
Fax (805) 520-0481
Cell (805) 433-5251
e-mail: rgansert@adv-mts.com
web: www.adv-mts.com



**ASM International
Los Angeles and South Bay,
Chapters**

May 2011

Joint Meeting

**Armor Materials, Coatings, and
Nanostructured Materials**

Presenter: Jacob J. Stiglich, PhD
Ultramet, Pacoima, CA

Co-author and Contact: Brian Williams
Research Director
Ultramet
818-899-0236

For more than 40 years Ultramet has developed and marketed coatings and freestanding structures fabricated by chemical vapor deposition. The presentation will begin with examples of Ultramet's commercial products in the fields of high temperature (aerospace engine and airframe applications) and biocompatible (open-cell foam and radiopaque components) materials. These will be followed by an example of a nanostructured, tungsten/tungsten carbide coating that offers a unique combination of high hardness and fracture toughness for wear resistance. Ultramet will then describe its rapidly fabricated, fiber-reinforced silicon carbide (and other carbides) matrix composites that can potentially be used in armor/blast energy absorption and high temperature, light weight aerospace structures. Initial ballistic testing has shown the effectiveness of this composite material in 7.62- and 12.7-mm APM2 projectile defeat at muzzle velocity while having lower areal density than armor materials currently available.

Speaker Bio:

Dr. Stiglich has more than thirty-five years experience in metallurgical technology and advanced materials and is a

recognized expert on ceramic composite fabrication, CVD fluidized bed powder coating, and materials for ordnance applications. A native of Milwaukee, Wisconsin, Dr. Stiglich received his Bachelor of Science degree in Mechanical Engineering from Marquette University and his doctorate in Materials Science from Northwestern University. He has extensive experience in government, academia, and industry. He has two patents on lightweight armor materials and has authored over one hundred scientific papers and reports.

Meeting Details

WHAT:	Armor Materials, Coatings, and Nanostructured Materials
WHO:	Jack Stiglich
WHERE:	The Proud Bird 11022 Aviation Blvd Los Angeles, CA 90045 (310) 670-3093 www.theproudbird.com
TIME:	5:30 PM: Social 6:30 PM: Dinner 7:00 PM: Program
WHEN:	Tuesday, June 21, 2011
COST:	\$20 for dinner (Students \$5)
R.S.V.P.	Siari Sosa ssosa@semprautilities.com (562) 806-4847 or 213-220-5695



Learn some exciting, simple, low-cost experiments to engage your students!

Attend a one-week training this Summer – FREE!

ASM MATERIALS CAMP® 2011

**California State University-Long Beach
Long Beach, CA
June 27-July 1, 2011**

Who: High school general science, chemistry, physics, math and technology teachers; middle school science teachers.

What: A one-week workshop to show you how to use low cost / no cost, simple labs and experiments using everyday materials that can be integrated into your existing lesson plans.

Why: To engage and excite young people in science and math!

Program Fees: None—program includes lunch and supplies; transportation and other costs are your expense.

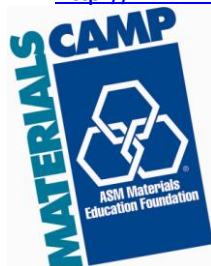
Credit: 2 graduate credits available for an additional cost of about \$200.

Schedule: This is a full day (8:00 to 5:00 PM) 5-day long workshop. (Note: Possibility of late afternoon/evening in the event of fieldtrips scheduled.)

Faculty: Primary faculty are two experienced high school “Master Teachers” who have taught materials science courses for many years and helped develop this innovative approach to hands-on learning of applied science principles.

How to apply:

- Click on link below.
<http://www.zoomerang.com/Survey/WEB22BQMD9DGLY/>; or visit www.asmfoundation.org.



Questions?

For more information, please visit www.asmfoundation.org or contact: Jeane Deatherage, Administrator of Foundation Programs at (jeane.deatherage@asminternational.org).





Helium Leak Testing, Inc.

19348 Londelius Street, Northridge, CA 91324
P: (818) 349-5690 or (800) 423-1701 F: (818) 717-8584
E-mail: info@heliumleaktesting.com
www.heliumleaktesting.com

LEAK DETECTION SERVICES VACUUM TECHNOLOGY SERVICES

- LEAK DETECTION SERVICES**
 - In-House Testing
 - NDT Certified Technicians
 - All Applicable Specifications
 - Application Specific Tooling
 - Customer Requirements
- LEAK TESTING - Field Service**
 - Field Leak Testing
 - Vacuum/Pressure
 - ASNT/ASME/MIL
 - Mass spectrometer
 - Permeation Studies
 - Nuclear Application
 - Hydrostatic/Pneumatic
 - Degassing
 - Buried lines
- CALIBRATION**
 - Leak Standards
 - NIST Traceable
 - High/Low Vacuum
 - All Types and Models
 - Vacuum Gauges
 - Repair
- REPAIR – Field Service**
 - Vacuum Pumps (Most)
 - Pumping Systems
 - High Vacuum Equipment
 - Leak Standards
 - Vacuum Systems
- LEAK DETECTORS**
 - New/Used
 - Accessories/Parts
 - High Production
 - Turnkey Systems
 - Tooling/Fixtures
 - Lease/Trade
 - Bombing Station
- VACUUM PUMP SERVICES**
 - New and Refurbished
 - Retrofits/Chemical
 - Oxygen Service
 - Mechanical/Blowers/Diffusion
 - Trades/Leases
- SALES**
 - Leak Detectors
 - Vacuum Pumps
 - Leak Standards/He/H²/Other
 - Accessories/Supplies
 - Rebuilt Vacuum Pumps
 - System/Pumping/Leak Detectors
 - Test Methods/Procedures

(800) 423-1701 www.heliumleaktesting.com E-mail : info@heliumleaktesting.com
19348 Londelius Street Northridge, CA 91324 FAX : (818) 717-8584

Advertising Rates

Take advantage of this opportunity to reach over 1000 materials professionals in the LA area.

Business Card (1/10 page)	\$20
1/8 page	\$25
1/4 page	\$50
1/2 page	\$87.50
Full page	\$150
Back 1/2 page	\$87.50

* 10% discount for full year purchase, 8 issues September-May (no December newsletter). Paper newsletter is sent in spring and fall with monthly electronic updates.

To advertise in this newsletter, contact us at michael.t.hahn@ngc.com



The Materials Information Society

The South Bay Chapter of ASM International thanks its sustaining members:

[Electrolizing Incorporated](#)
[Allied High Tech](#)



Your metallographic preparation and testing success comes down to three critical factors...

Powerful Equipment, Intelligent Support, Outstanding Service

For more than 125 years, Struers has been your source for equipment, support and service that pushes the excellence edge to the extreme. Whether you're seeking fully or semi-automated equipment that cuts, grinds, polishes, tests or prepares, Struers can deliver.

Contact Struers Executive Account Representative
Nancy Kacius at 1.888.STRUERS, ext. 862.

Solutions for your business can be found at www.struers-solutions.com

Tel: 866-787-8169 Fax: 440-871-8188 Email: info@struers-solutions.com

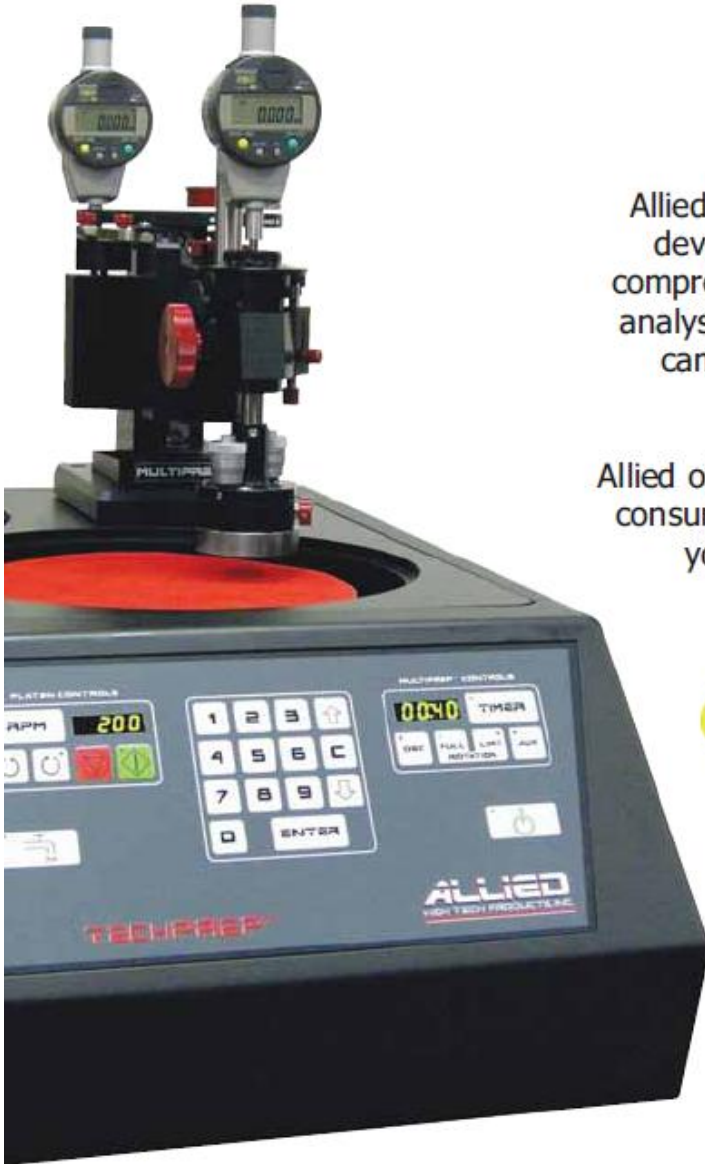
Technical Expertise

at Your Service!

Allied Materials Engineers are available to assist you in developing procedures for your samples, preparing comprehensive application reports, and making imaging/analysis recommendations using the latest microscopes, cameras & software from Carl Zeiss Microimaging.

It's complimentary... *always!*

Allied offers a complete line of superior quality equipment, consumables, and Carl Zeiss image analysis products for your metallographic sample preparation needs.



Allied's MultiPrep™ System enables precise (1 μm) semiautomatic sample preparation of a wide range of materials for microscopic evaluation

Request Allied's Latest Product Catalog Today!



Craig Bryan is Allied's Product Application Specialist for the Southern California Area and is available for on-site demonstrations.

Please contact Craig at:
 Office/Cell: (949) 300-0119
 E-mail: ccbryan@alliedhightech.com



Allied Equipment and Fixtures are Designed and Manufactured by Allied in the United States

2376 East Pacifica Place, Rancho Dominguez, California 90220 USA
 (800) 675-1118 (US/Canada) • (310) 635-2466 (worldwide) • www.alliedhightech.com



Buehler® is Your Partner for Material Preparation and Analysis!

Left) Car wheels. Right) Al 356 cast alloy.

From Start to Finish - Buehler® Has it All!

From first cut to final analysis, Buehler is your partner for material preparation and analysis. Our products and services include:

- Abrasive Cutters
 - Precision Diamond Saws
 - Mounting Presses
 - Grinder-Polishers
 - Metallographic Consumables
 - Hardness Testers & Microscopes
 - Digital Image Analysis Systems
 - Educational Training Courses
- For more information, contact:**
Don Lafferty
tel: (562) 743-9523
800-BUEHLER (800-283-4537)
don.lafferty@buehler.com
www.buehler.com



Buehler, a division of Illinois Tool Works Inc.
35 Parker • Irvine, CA 92618 • www.buehler.com

PROVIDING SOLUTIONS FOR OVER 70 YEARS

Los Angeles/South Bay Chapter
Chair
Eric Fodran
eric.fodran@ngc.com

Orange Coast Chapter Chair
Khinlay Maung
kmaung@uci.edu

San Fernando Valley Chapter Chair
Hans Shin
hshin@pacifictesting.com



We're on the Web!
www.asmwest.com

ASM Quad Chapter Newsletter
4929 Macafee Rd
Torrance, CA 90505

June 2011

Place
Stamp
Here