

**Famous Quotes**

*We are what we repeatedly do. Excellence, then, is not an act, but a habit.*  
-Aristotle

*He who never fell never climbed.*  
-Anonymous

*I don't want to achieve immortality through my work. I want to achieve it through not dying.*  
-Woody Allen

***Editor's Corner***

Take a look at this month's listing of Professional Development seminars (page 7). ASME-SCVS offered a seminar this month, May 16, on non-linear finite element analysis. Dr. Arsen Tonoyan presented an interesting seminar that was well received. Qualified participants received free Abaqus Student Version software v6.8. We offer this event yearly. Next month we are offering "Design Optimization".

I highly recommend attending a Professional Development seminar. I went to the Solar Energy conference last year and learned a lot about the industry, heard some very good presentations, met some friendly faces, and collected useful business cards of hiring-level engineering managers; in four hours.

So, why go to a Professional Development Seminar?

- Get great exposure to new methodologies and technologies in the mechanical engineering practice.
- Network with mechanical engineering peers: Know whose company is growing and whose business is declining?
- Meet potential employers. Seminar presenters are often hiring-level managers or are accompanied by such managers who expect, and actually seek out, good motivated engineering talent.
- The SCVS Professional Development program is recognized nation-wide as a leading edge seminar series noted for innovative communication, breadth of topics, and quality of presentations.
- You don't have to be present. In addition to the live in-person presentation, the seminars are distributed remotely as a live "webinar" requiring the attendee only to have a laptop and internet connection.
- \$89 is a cheap way to boost your career (Event Pricing can range from \$35- \$129).

There are many good reasons to attend; so do it.

**Dave Bartz**  
**Newsletter Editor**

**Topics Inside This Issue**

P1	Editor's Corner	P5	2009 ASME Annual Meeting Announcement: Engineering in the Global Market: Keys for Success
P2	Calendar of Local Engineering Events	P6	Global Engineering Management Conference
P3	Engineering Employment Opportunities	P6	ASME Nuclear Seminar Announcement
P3	ABAQUS users group information	P6	FIRST Scholarship Awards
P4	ASME-SCVS PD Seminar: "Design Optimization"	P7	ASME-SCVS Professional Development Events Calendar
P5	ASME Turbo Expo 2009	P7	Contact us You're invited: April ASME-SCVS meeting notice

## Calendar of Local Engineering Events

Description	Date
IEEE Santa Clara Valley monthly events <a href="http://www.e-grid.net/">www.e-grid.net/</a>	various
Monthly meeting of AIChE NorCal Section <a href="http://aiche-norcal.org/meetings.php">http://aiche-norcal.org/meetings.php</a>	TBA
PD Seminar: Non Linear FEA using ABAQUS Santa Clara University (see page 4)	5/16
Society of Manufacturing Engineers Seminar: An Engineer's Guide to Green <a href="http://smegreenseminar.eventbrite.com">http://smegreenseminar.eventbrite.com</a> Santa Clara Convention Center	5/21/09 8:30 am to 3:30 pm
Webinar: Multiphysics Simulation of Acoustics <a href="http://www.memagazine.org/webinar.html">http://www.memagazine.org/webinar.html</a>	5/21/09 2-3 pm ET
ASME-SCVS Monthly meeting. Contact: <a href="mailto:pangy1@asme.org">pangy1@asme.org</a>	4/9/09
ASME Turbo Expo, Orland Florida	6/8-12
ASME Annual Meeting, Palm Desert, CA	6/14-17
Semicon West, Moscone Center, San Francisco <a href="http://www.semiconwest.org">www.semiconwest.org</a>	7/14-16

### Want to add your event to our list?

Send your event information to Dave Bartz, newsletter editor: [dbartz@alzeta.com](mailto:dbartz@alzeta.com)

### FREE Pass for volunteers @ ES 2009 Conference

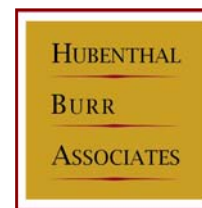
Volunteers are needed for the Energy Sustainability 2009 Conference in San Francisco in July 2009.

#### Volunteer and attend at no charge.

For Info: Contact Scott Burr,  
at [burrs@asme.org](mailto:burrs@asme.org) or 408-689-0888

**Hewlett Packard has generously donated \$5,000 to ASME Energy Sustainability 2009 (ES 2009) as a conference sponsor. Part of this support will be used for the HP Early Career Forum at ES 2009 being produced by our section.**

### Santa Clara Valley Section Sponsors



THANK YOU to our ASME SCVS Members that have generously made individual donations to their section.

These donations are substantial and important to our viable operation and to support your greater engineering community.

We appreciate your sponsorship!

### Your Company Logo Here

Interested in sponsoring ASME SCVS?  
Please contact Mahantesh Hiremath  
(617) 816 2505  
[Hiremathm2@asme.org](mailto:Hiremathm2@asme.org)



# Santa Clara Valley (SCV) Section Newsletter

May 2009

<http://www.sections.asme.org/scvs>

## Engineering Employment Opportunities

### KLA Industries, Inc.

Rachael Smith, CPC  
Executive Recruiter  
KLA Industries, Inc.  
513-939-3560 x 12

[rachael@klaindustries.com](mailto:rachael@klaindustries.com)  
[www.klaindustries.com](http://www.klaindustries.com)  
[www.linkedin.com/in/plasticsrecruiter](http://www.linkedin.com/in/plasticsrecruiter)

Item	Title-code	Location	Annual Salary
1	<b>Mechanical Reliability Engineer</b> - JOS000000662	Paducah, KY - USA	90000 - 110000
2	<b>New Product Development Project Engineer</b> - JOS000000682	Chicago, IL - USA	80000 - 85000
3	<b>Product Marketing Supervisor</b> - JOS000000681	Chicago, IL - USA	90000 - 105000
4	<b>Refinery Engineering Manager</b> - JOS000000604	Bakersfield, CA - USA	110000 - 140000
5	<b>Refinery Maintenance Manager</b> - JOS000000605	Bakersfield, CA - USA	90000 - 140000
6	<b>Maintenance Manager</b> - JOS000000667	Baton Rouge, LA - USA	115000 - 125000
7	<b>Mechanical Reliability Engineer</b> - JOS000000587	Montgomery, AL - USA	90000 - 110000
8	<b>Mechanical Design Engineer</b> - JOS000000571	Baltimore, MD - USA	60000 - 80000

Advanced FEA		<a href="mailto:info@advancedfea.net">info@advancedfea.net</a>	
Item	Title	Location	Experience
1	Senior Mechanical Design Engineer (6 mo – 1 yr contract)	Bristol, CT	5+ years; SolidWorks

## Join the ABAQUS Users Group.

Click on the link below to connect to a LinkedIn site for sharing questions and information about ABAQUS and non-linear finite element analysis.

[http://www.linkedin.com/groups?about=&gid=786907&trk=anet\\_ug\\_grpbro](http://www.linkedin.com/groups?about=&gid=786907&trk=anet_ug_grpbro)



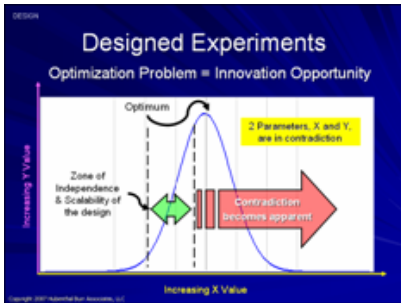
Abaqus suite of general-purpose nonlinear finite element analysis (FEA) programs for mechanical, structural, civil, biomedical, and related engineering applications. This group is for people who are interested in discussing FEM/FEA and sharing knowledge on supporting tools/tech/conferences for ABAQUS.



## ASME PROFESSIONAL DEVELOPMENT SEMINAR " Design Optimization "

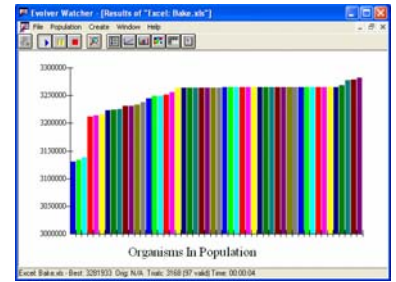


*Metin Ozen, President and CEO, Ozen Engineering Inc*  
*Scott Bur, Six Sigma Master Black Belt, Hubenthal Burr Associates, LLC*



Location: Santa Clara, CA  
**Saturday, June 6, 2009**

ASME or SVEC member: \$50 per person  
**Non-Member: \$69 per person**  
Student, Unemployed, or Retired Member: \$30



Genetic Algorithm

*ATTEND IN-PERSON or BY WEBINAR*

### ABSTRACT

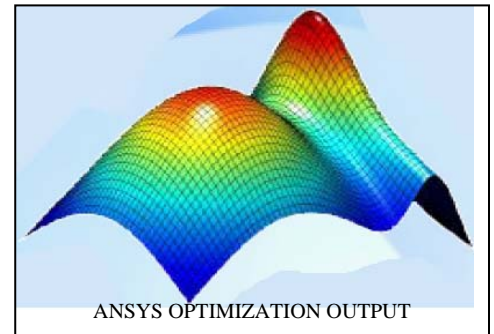
You will see the many sides of optimization as a sample of applications are presented including the use of Finite Element Analysis, Genetic Algorithms, Monte Carlo Analysis, Design of Experiments, Robust Design Optimization and even a conceptual, non-computational approach that has been as or more effective than traditional numerical approaches.

### PARTICIPANTS WILL RECEIVE:

- Open source Monte Carlo Analysis plug-in for Excel (2003/2007)
- Open source Genetic Algorithm for Excel (2003/2007)

### YOU WILL LEARN...

- Use of Finite Element Analysis for Optimization (ANSYS software demo)
- Principles and application of Robust Design Optimization
- Use of Genetic Algorithms in excel (Evolver & open source plug-in demo)
- Basics and Use of Monte Carlo Analysis (open source software plug-in demo)
- Basics and applications of Designed Experiments (DOE: ANSYS & Minitab demo)
- Non-computational methods to Optimization for Conceptual Development
- Cross comparison of techniques: how they differ and relate to each other



**WHO SHOULD ATTEND:** Professionals responsible for Optimization, Design Engineers, Mechanical Engineers, Consultants, Manufacturing Engineers, Users of Finite Element Software, Mechanical Engineering Supervisors, Unemployed Engineers and Technical Engineering Supervisors & Managers.

### REGISTER & PAY NOW

- Acteva (Credit Card Service)  
<http://www.acteva.com/go/asmescvs>
- Mail-in form – must be received on the day prior to seminar start

### CONTACT REGISTRAR

- Email Registrar: [pangyl@asme.org](mailto:pangyl@asme.org)
- Call Registrar, Ying Pang:  
(408) 679-5402



Send payment to: ASME SCVS, P.O. Box 611865, San Jose, CA 95161-1865

Payment must be received prior to the seminar and will not be accepted at the door.

### Design Optimization

Name \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ Title \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_ Phone \_\_\_\_\_

Email \_\_\_\_\_ Engineering Society \_\_\_\_\_  Attend in Person  Attend online

I can provide proof of membership (Circle one) Yes No;  I eat vegetarian when it is provided

## ASME Turbo EXPO 2009! Meeting Complex Global Challenges Presented by the International Gas Turbine Institute



**ASME Turbo Expo 2009**  
June 8-12, 2009  
World Marriott Resort • Orlando, FL USA

Plan to attend ASME Turbo Expo 2009 from June 8-12, at the World Marriott Resort in Orlando, FL, where thousands of gas turbine professionals will meet to gather insights, learn about critical achievements in the industry and network with colleagues around the world.

The highlights of the conference include:

- A five-day technical congress, the world's leading gas turbine technology conference;
- A three-day premium exposition of gas turbine products and services supported by leading companies in the industry
- In-depth workshop providing fundamental study on selected subjects

Online registration for Turbo Expo 2009 is now open. To register by fax or mail, please visit <http://www.asmeconferences.org/TE09/ConfRegistration.cfm> for more information

## ASME Y14.5 - 2009 Now Available

ASME has announced that its Geometric Dimensioning and Tolerancing (GD&T) standard, *ASME Y14.5 – 2009*, has been revised and is now available for purchase.

The *ASME Y14.5 – 2009* standard, an essential communications tool for top engineers worldwide, has undergone its first revision in more than 15 years. It includes important changes that better suit the needs of the 21<sup>st</sup> century engineer. Changes that address the concept of feature design, surface boundaries and axis methods of interpretation are included among others.

The revised standard is now available for purchase on ASME's online catalog. The site also offers discounts on related GD&T standards, personnel certification, handbooks and training courses to aid engineers in understanding the language of GD&T.

For more information on ASME Y14.5, visit: <http://go.asme.org/gdt>.

## Engineering in the Global Market: Keys for Success



Please join us for the 2009 ASME Annual Meeting, which will be held from June 14-17 at the Desert Springs JW Marriott in Palm Desert, California. The conference theme "Engineering in the Global Market: Keys for Success," will highlight strategies for business productivity and success in the world marketplace.

The featured plenary sessions at the ASME Annual Meeting, covering global engineering topics, will be moderated by Andrew W. Reynolds, deputy science and technology advisor to the Secretary of State, U.S. Department of State. Topics include:

- **"Winning Strategies for Global Engineering: Products, Processes and Productivity,"** featuring speakers from Chevron Corporation, Air Liquide Engineering & Construction, Toshiba Corporation and Caterpillar Production System
- **"Global Partnerships and Collaborations: Best Practices and Lessons Learned,"** featuring speakers from Westinghouse/Toshiba, Black & Veatch Corporation and Shell International Exploration & Production, Inc.
- **"Enhancing Your Knowledge of Global Trade: Codes and Standards as a Gateway to Global Markets,"** featuring speakers from ASME, Pebble Bed Modular Reactor, LTD, Gas Authority of India, Ltd, Bureau Veritas UK Limited and Japan Atomic Energy Research Institute, Japan Society of Mechanical Engineers

In addition, the ASME Annual Meeting will feature a wide range of seminars concerning engineering talent, education, intellectual property, codes and standards, immigration, engineering issues in the developing world and global supply chain management. The event will also provide numerous professional development opportunities for engineers and other technical professionals.

To register for the event, or for more information, [visit the 2009 Annual Meeting website](#).

## Global Engineering Management Conference (GEMC): Tackling Today's Management Challenges

The fast pace of technological change, globalization and the softening of the world economy have exerted many changes in the engineering profession. Developed by the ASME Management Division and refined by leaders in industry, the Global Engineering Management Conference (GEMC) will bring together mid-career engineering managers from key industries. With a focus on knowledge from best-in-class organizations and an emphasis on hands-on experiential learning, the GEMC will provide both technical and economical value for those who participate. The four conference tracks are as follows:

- Managing New Technology
- Managing & Developing Engineers
- Supply Chain Management within the Global Market
- Managing Your Ecological Footprint in the Energy & Environmental Era

Programming will consist of technical sessions, continuing education unit (CEU) accreditation tutorials, structured networking events, and other innovative knowledge and professional exchange forums.

To learn more and register, please visit the special Web site at: <http://www.asmeconferences.org/gemc09>

## ASME To Launch New Nuclear Seminar Series in June

This June, senior level executives from all areas of the nuclear power industry will convene in Atlanta, Ga. to share their expertise and to provide success factors for the nuclear renaissance during ASME's new Nuclear Technical Seminars program.

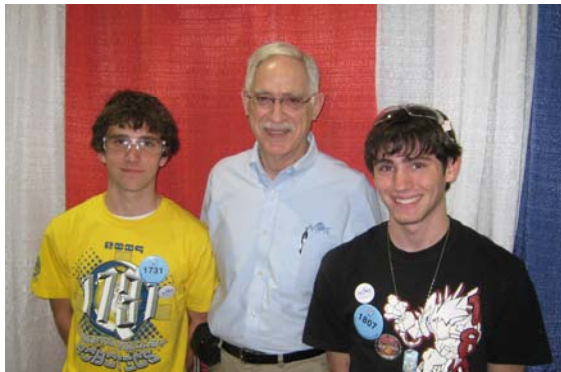
The new program, entitled, "Blueprint for the Nuclear Renaissance," which will take place from June 22-23 at the J.W. Marriott Buckhead, was developed as a forum for engineers to learn about design, construction, startup and operation for the next group of nuclear power plants from leading expert in the nuclear industry.

The five in-depth seminars will examine the industry's newest trends and will be led by more than 30 nuclear power professionals from organizations such as Areva, Bechtel, Exelon, Sandia National Lab and Westinghouse.

One of the seminars, Nuclear Power Plant Design, will provide an overview of the steps required to produce the design necessary to purchase, fabricate and construct a nuclear power plant. The program will also feature an opening plenary session, "Success Factors for the Nuclear Renaissance," which will offer an overview of the opportunities and challenges facing the next generation of U.S. nuclear power plants.

For more information on the ASME Nuclear Technical Seminars, visit [www.asmeconferences.org/nuclear09](http://www.asmeconferences.org/nuclear09) or contact Jennifer Delda, program manager, at 212 591 7108 or [deldaj@asme.org](mailto:deldaj@asme.org).

## ASME Awards FIRST Clarke Scholarships to Aspiring Mechanical Engineers



ASME President Thomas Barlow (center) poses with Levi Leppke (left) of Midland, Va., and Samuel Pace Nalbone, of Allentown, NJ, recipients of 2009 ASME Auxiliary FIRST Clarke Scholarships. The awards were presented during the FIRST Championship competition in Atlanta, Ga, recently. Katelynne Baier, of Centerburg, Ohio, was also awarded a scholarship but did not attend.

The FIRST Clarke Scholarship is awarded by the ASME Foundation and Auxiliary to a high school senior active on FIRST team and who plans to enroll in an ABET-accredited mechanical engineering program upon graduation.



# Santa Clara Valley (SCV) Section Newsletter

May 2009

<http://www.sections.asme.org/scvs>

## ASME-SCVS PROFESSIONAL DEVELOPMENT EVENTS

### Past and Upcoming Seminars

<u>Date</u>	<u>Topic</u>	<u>Guest Speakers</u>	<u>Organization</u>
May 16, 2009	Non-Linear FEA using Abaqus	Arsen Tonoyan	Simulia West Inc.
Jun 6, 2009	Design Optimization	Scott Burr, Metin Ozen	Hubenthal Burr Assoc. Ozen Engineering
July 19, 2009	HP Early Career Forum at ASME ES2009	Various	Various
Sept 2009	Systems Engineering	Mahantesh Hiremath	Space Systems Loral

### Contact your Santa Clara Valley Section

We want to hear from you. Please, send an e-mail to any of the Board Members below.

**Chair:** Mahantesh Hiremath  
E-mail: [hiremathm2@asme.org](mailto:hiremathm2@asme.org)  
Tel: (617) 816 2505

**Professional Development Chair:** Scott Burr  
E-mail: [burrs@asme.org](mailto:burrs@asme.org)  
Tel (408)689-0888

**Section Vice-Chair:** Johann Tiamzon  
E-mail: [tiamzonj2@asme.org](mailto:tiamzonj2@asme.org)

**Treasurer:** Michael Mark  
Email: [markm@asme.org](mailto:markm@asme.org)

**Secretary:** Ying F. Pang  
E-mail: [pangy1@asme.org](mailto:pangy1@asme.org)

### MONTHLY MEETINGS

(2<sup>nd</sup> non-holiday Thursday of the Month)

*Expand your professional network. Join us at our regular Membership/Business Monthly Meetings*

#### Mark Your Calendar

**When:** 7:00PM, May 14<sup>th</sup>, 2008

**Location:** Virtual Meeting, held online

**Contact:** Ying F. Pang ([pangy1@asme.org](mailto:pangy1@asme.org))

**Santa Clara Valley Section Website:** <http://www.sections.asme.org/scvs>

### SPONSORSHIP OPPORTUNITIES

Find out how *becoming a sponsor* to the ASME *can enhance your visibility and reputation* with Engineers and Business Professionals across the Pacific Northwest. [burrs@asme.org](mailto:burrs@asme.org)