



Santa Clara Valley (SCV) Section Newsletter

March 2009

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

Famous Quotes

Give me six hours to chop down a tree and I will spend the first four sharpening the axe.

-Abraham Lincoln

I don't like that man. I must get to know him better.

-Abraham Lincoln

If I were two-faced, would I be wearing this one?

-Abraham Lincoln

Editor's Corner

I think it is helpful on occasion to review the purpose and vision of an organization, whether corporation, school, church group, or professional society. With that in mind, here, reprinted with permission from www.asme.org, are the tenets of today's ASME.

ASME's Vision, Mission Statement And Core Values

Founded in 1880 as the American Society of Mechanical Engineers, ASME is a not-for-profit professional organization promoting the art, science and practice of mechanical and multidisciplinary engineering and allied sciences. ASME develops codes and standards that enhance public safety, and provides lifelong learning and technical exchange opportunities benefiting the global engineering and technology community. ASME has more than 127,000 members worldwide.

Vision

To be the premier organization for promoting the art, science and practice of mechanical and multidisciplinary engineering and allied sciences to our diverse communities throughout the world.

Mission Statement

To promote and enhance the technical competency and professional well-being of our members, and through quality programs and activities in mechanical engineering, better enable its practitioners to contribute to the well-being of humankind.

ASME Core Values

In performing its mission, ASME adheres to these core values:

- Embrace integrity and ethical conduct
- Embrace diversity and respect the dignity and culture of all people
- Nurture and treasure the environment and our natural and man-made resources
- Facilitate the development, dissemination and application of engineering knowledge
- Promote the benefits of continuing education and of engineering education
- Respect and document engineering history while continually embracing change
- Promote the technical and societal contribution of engineers

To achieve ASME's vision, the [ASME Board of Governors](#) has focused its FY2010 planning on three key strategies:

Energy: ASME is a leading force in building collaboration within the engineering community and other key constituencies—a cutting-edge resource on energy technologies and fuel sources. Programs and activities of ASME encourage active, broad support for balanced energy policies from volunteers around the globe. Currently ASME has broad participation in developing an [Energy Grand Challenge](#) Roadmap to implement plans. Immediate plans call for: Coordination and partnering in advocacy
Raising the ASME energy profile for the wide variety of energy-related programs, products and activities held regularly

Globalization: To advance its markets outside the USA and Canada and establish significant and measurable growth, ASME focuses on its core strengths in promoting standards and certifications and implementing strategic global partnerships.

Engineering Workforce Development: ASME expands the capacity and effectiveness of the engineering workforce by actively promoting collaboration, increasing public awareness, increasing the value of ASME student and early career participation, and offering professional development programs to prepare a global engineering workforce to meet the challenges of tomorrow.

Comments, questions, and volunteers are welcome.

Dave Bartz
Newsletter Editor

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Calendar of Local Engineering Events

Description	Date
IEEE Santa Clara Valley monthly events www.e-grid.net/	various
Monthly meeting of AIChE NorCal Section http://aiche-norcal.org/meetings.php	TBA
Society of Manufacturing Engineers Factory tour of Mercury Container, Union City M_brinkerhoff@fusionnet.com	3/19/09
Deadline for abstract submittal for ASME 2009 Graduate Student Technical Conference, San Jose State University http://districts.asme.org/DistrictD/GSTC/2009CallforPapers also http://districts.asme.org/spdc/ca	3/20/09
Silicon Valley Leaders Symposium Laura Ipsen, Sr. VP Global Policy and Government Affairs, Cisco Noon – 1pm Engineering Building room 189, San Jose State University www.engr.sjsu/about/svls	4/2/09
ASME Student Professional Development Conference-District D. San Jose State University, San Jose, CA. http://districts.asme.org/SPDC/CA	4/3-4/09
ASME-SCVS Monthly meeting. Contact: pangy1@asme.org	4/9/09
California PE exam for mechanical engineering	4/24/09

Want to add your event to our list?

Send your event information to Dave Bartz, newsletter editor: dbartz@alzeta.com

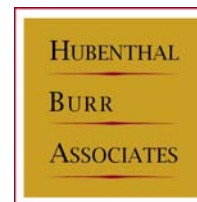
FREE Pass for volunteers @ ES 2009 Conference

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 or 408-689-0888.

Santa Clara Valley Section Sponsors



Your Company Logo Here

Interested in sponsoring ASME SCVS?
Please contact Mahantesh Hiremath
(617) 816 2505
Hiremath2@asme.org



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JUDGES NEEDED FOR ASME STUDENT PROFESSIONAL DEVELOPMENT CONFERENCE APRIL 3, 4, 2009 SAN JOSE STATE UNIVERSITY

San Jose State University is hosting the 2009 ASME District D South - Student Professional Development Conference (SPDC) on Friday evening, April 3 and Saturday, April 4, 2009. This conference is a series of competitions among many of our South West Universities that have ASME Student Sections. The event will be held on the SJSU campus Engineering Building in San Jose, CA.

I am requesting your help to serve as a judge for one the various competitions. You will have a great opportunity to support the fine students from many of our universities in California, Hawaii and Nevada. Please visit our conference web site for a description of the competitions: <http://districts.asme.org/SPDC/CA/CACompetitions.htm>

Currently, we need judges for the ASME Old Guard Oral, Poster and Web Poster competitions, plus the Student Design Competition and the Radio Controlled Baja vehicle competition. Rules for all of these events are posted on the above web site. Please let me know your interest in helping with these events. All judges are welcome to stay for the Saturday evening dinner and awards presentations. You will be our guest at the conference, and would not pay the normal registration fee.

Please join me in supporting our ASME Student members at this exciting event. You may contact me at davisl@asme.org or 510-593-9265 if you are interested and/or have any questions. All you need is an interest in supporting the students and be willing to have a great time!

Thanks

Lynden F. Davis
District D South Student Coordinator
E-mail davisl@asme.org

Engineering Employment Opportunities

KLA Industries, Inc.

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

rachael@klaindustries.com
www.klaindustries.com
www.linkedin.com/in/plasticsrecruiter

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

Advanced FEA

info@advancedfea.net

Item	Title	Location	Experience
1	Senior Mechanical Design Engineer (6 mo – 1 yr contract)	Bristol, CT	5+ years; SolidWorks

ASME PROFESSIONAL DEVELOPMENT SEMINAR

“Non-Linear Finite Element Analysis using Abaqus”

Arsen Tonoyan, SIMULIA Western Region, Fremont, California

Saturday, May 16, 2009

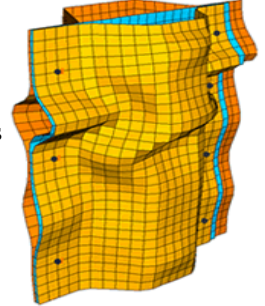
9:00 am – 12:00 pm Theoretical aspect of Abaqus
1:00 pm – 4:00 pm Examples of Abaqus’ application to Practical Problems

Location: Santa Clara University, Room: TBD

ASME or SVEC member: \$89 per person

Non-Member: \$179 per person*

ASME or SVEC Student or Unemployed Member: \$45



**Qualified Attendees
will get FREE
Abaqus Software!
(Student Version)**

*Non-members will become an ASME member with their paid seminar fee, if they complete an application form, on the day of the seminar. You must provide proof of citizenship. Citizens of some countries may not qualify. You must comply with U.S. Export Law. All in-person attendees will receive a catered lunch, and break snacks/drinks will be a part of your seminar experience.

SEMINAR ABSTRACT / SPEAKER BIO

Learn the basics of Non-Linear Finite Element Analysis in this course, filled with examples & non-linear applications. **FREE Abaqus software (Student version) is given to every qualified participant (based on citizenship).**

Dr. Arsen Tonoyan is a member of the technical staff at SIMULIA West, the west coast branch office of Dassault Systèmes Simulia Corp. He currently leads an engineering team which provides high level of technical support, training, mentoring and consulting services to Abaqus users across several industries – aerospace, defense, electronics, biomedical and life sciences, automotive, energy and petrochemical, consumer goods, heavy machinery, manufacturing, consulting. Since joining Abaqus team in 2000, Dr. Tonoyan has been involved in providing technical support and conducting advanced courses to Abaqus software users. He performed multitude of FEA consulting projects to companies in various fields of engineering, as well as mentored Abaqus users directly into their applications. Before his career at SIMULIA, Dr. Tonoyan has taught courses and conducted research at the Aerospace and Mechanical Engineering Department of the University of Arizona and Earthquake Engineering Department of the American University of Armenia.

Dr. Tonoyan earned his PhD in Mechanical Engineering from the University of Arizona, ME degree in Earthquake Engineering from the American University of Armenia, and MS/BS degrees in Engineering Mechanics and Applied Mathematics from the Yerevan State University, USSR.

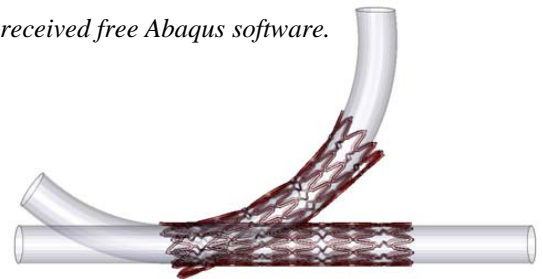
All attendees must provide proof of citizenship to be qualified to received free Abaqus software.

YOU WILL LEARN...

- Basics of Nonlinear Finite Element Analysis
- Abaqus: Development history and capability
- Usage of Abaqus for field problems

YOU WILL GET...

- Free CD of Abaqus Student version (1000 nodes)



WHO SHOULD ATTEND: Users of Finite Element Software, Mechanical Engineers, Consultants, Stress Analysts, Unemployed Engineers, Technical Engineering Supervisors, and Technical Engineering 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



Send payment to: ASME Professional Development Chair, 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.

Non-Linear Finite Element Analysis using Abaqus

Name _____ Company _____

Address _____ Title _____

City _____ State _____ ZIP _____ Phone _____

Email _____ Engineering Society _____ Attend in Person Attend online

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

CONTACT REGISTRAR

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



Early Career Engineers: The ASME Foundation Needs Your Help!

If you seek an energized and productive way to volunteer your time within ASME, look no further. The ASME Foundation has an opportunity for you! Have you ever wondered about the role the Foundation plays in ASME program activities? Are you interested in the basics of non-profit organization activity and fundraising?

The ASME Foundation is looking for a small, dynamic group of young engineers who can not only learn from us, but from whom we can learn the Early Career Engineer perspective. How can we reach out to this influential group in the most powerful and effective way? How can we fundraise to young engineers? How can we keep you engrossed in ASME on this particular volunteer level?

Thoughts or comments? Visit our web site at www.foundation.asme.org, then give us a call!

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



Set aside this Date

Saturday, June 6, 2009

MORE DETAILS in NEXT NEWSLETTER

ASME or SVEC member: \$50 per person

Non-Member: \$69 per person

ASME or SVEC Student or Unemployed Member: \$30

ABSTRACT

You will see the many sides of optimization including the use of FEA, Genetic Algorithms, Design of Experiments, and even a conceptual, non-computational approach that has been as or more effective than traditional numerical approaches.

YOU WILL LEARN...

- *Use of Finite Element Analysis for Optimization*
- *Use of Genetic Algorithms in excel (software demo) for optimization*
- *Designed Experiments (Design of Experiments)*
- *Non-computational methods to Optimization for Conceptual Development*

WHO SHOULD ATTEND: Design Engineers, Mechanical Engineers, Consultants, Manufacturing Engineers, Mechanical Engineering Supervisors, Users of Finite Element Software, Unemployed Engineers and Technical Engineering Managers.

CONTACT

- Call Ying Pang: (408) 679-5402; Email: pangyl@asme.org

Engineering in the Global Market: Keys for Success

The 2009 ASME Annual meeting, under the theme, "Engineering in the Global Market: Keys for Success," will bring together an outstanding line-up of speakers, comprised of senior executive and engineers from around the globe, who will draw upon their experiences to share winning strategies and critical skills that are the keys to your companies' success in the global market.

The agenda for the meeting also offers numerous opportunities to earn professional engineering credentials and fine-tune your management skills to advance your career.

The 2009 ASME Annual Meeting will be held June 13–17, at JW Marriott®, Palm Desert, California. The meeting's program consists of plenary sessions, seminars, professional development sessions, and a Career Expo.

Based on the theme "Engineering in the Global Market: Keys for Success," the meeting will enable engineers to gain insight about managing in global engineering markets. Topics to be covered will include global collaboration and partnerships; effectively managing a global supply chain; development of universally applicable codes and other keys to success in today's global engineering market.

The plenary sessions are titled "Winning Strategies for Global Engineering: Product Processes and Productivity," "Global Partnerships and Collaborations: Best Practices and Lessons Learned" and "Enhancing Your Knowledge of Global Trade: Codes and Standards as a Gateway to Global Markets." Each plenary session will run for 90 minutes and will feature expert commentary from CEO and vice president-level corporate decision-makers, academic scholars, and business consultants. Andrew W. Reynolds, Deputy S&T Adviser to the Secretary of State, U.S. Department of State, will chair and moderate the plenary sessions. Reynolds has led strategic planning efforts addressing science, engineering and technology issues in foreign policy and within the U.S. government.

Seminars will explore the subjects treated in the plenary sessions, although in greater depth. The 75-minute workshops will provide a forum for questions and answers between speakers and attendees.

The professional development program at the meeting will focus on building career skills that are critical to success in the global marketplace. You can earn up to 14.5 PDHs for attending the meeting.

For information, visit www.asmeconferences.org/annualmeeting09 or call (866) 519-1299.

***The 2009 Nominating Committee is accepting
Letters of Intent for the following Society Offices***

ASME president — one-year term

Board of Governors member — three-year term

Vice President of Professional Development, Practice
& Ethics (Centers Sector)

Vice President of Public Awareness (Centers Sector)

Vice President of Standardization and Testing (Codes
and Standards Sector)

Vice President of Affinity Communities (Knowledge
and Community Sector)

Vice President of Financial Operations (Knowledge
and Community Sector)

Letters of Intent are due March 15, 2009

Please visit the Nominating Committee website for the
Letter of Intent and information on the “How-to” guide
when running for a Society office.

[http://www.asme.org/Governance/Nominating/Nomina
ting_Committee.cfm](http://www.asme.org/Governance/Nominating/Nominating_Committee.cfm) or contact RuthAnn Bigley at
bigleyr@asme.org.

Volunteer with ASME / Find a Volunteer



Looking for a new adventure at ASME? Need a volunteer to
help your group get on track? The Volunteer Opportunity
Bulletin Board (VOBB) is the one-stop resource for those
interested in finding available volunteer positions and groups
needing enthusiastic volunteers for their ASME local,
District and/or national level committees. As a tool designed
to help volunteer leaders promote and fill volunteer positions
throughout ASME, it opens the door to
new opportunities.

To learn more about the VOBB and the volunteer positions
available, visit <http://volunteer.asme.org/vobb/>.

2009 Human Powered Vehicle Challenge

HPVC East Hosted by Drexel University,
Philadelphia, PA, April 17-19, 2009

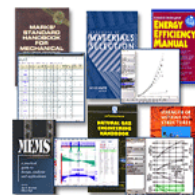
HPVC West Hosted by Portland State University,
Portland, OR, May 1-3, 2009

The 2009 Human Powered Vehicle Challenge is just
around the corner! Spread the word!

Human Powered Vehicles are aerodynamic, highly
engineered vehicles that may be for use on land, in the
water or the air. The Human Powered Vehicle
Challenge (HPVC) encourages students to design and
construct an environmentally friendly vehicle that is
fast, sleek, and safe and can be used for everyday
activities. The point of the competition is to showcase
the elegance and ingenuity of design, including
presentation, practicality and safety.

To learn more about the HPVC and to register, please
visit our website: www.asme.org/hpv.

ASME E-Library for You!



The ASME E-Library is a members-only benefit that
allows you to access online collections of engineering
reference books to help you answer questions and find
practical solutions to daily on-the-job problems.

As an added bonus, the ASME E-Library is powered by
Knovel, whose interactive and user-friendly technology
gives you the ability to manipulate and search for
content across the entire collection quickly and easily.

To learn more, visit

[http://www.asme.org/Membership/Benefits/Professiona
l/eLibrary.cfm](http://www.asme.org/Membership/Benefits/Professional/eLibrary.cfm)”



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ASME-SCVS PROFESSIONAL DEVELOPMENT EVENTS

Upcoming Seminars: Exact Dates to Be Determined

<u>Date</u>	<u>Topic</u>	<u>Guest Speakers</u>	<u>Organization</u>
May 16, 2009	Non-Linear FEA using Abaqus (see ad on page 4)	Dr. Arsen Tonoyan	Dassault Systèmes Simulia Corp; SIMULIA, West
Jun 2009	Design Optimization	Scott Burr, Metin Ozen	Hubenthal Burr Assoc. Ozen Engineering
July 2009	Early Career Forum @ Energy Sustainability2009	Various TBD	ASME
Sept 2009	Spacecraft Systems Engineering	Mahantesh Hiremath	Space Systems Loral
Oct 2009	Innovation Forum	TBD	TBD

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
Tel: (617) 816 2505

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

Section Vice-Chair: Johann Tiamzon
E-mail: tiamzonj2@asme.org

Treasurer: Michael Mark
Email: markm@asme.org

Secretary: Ying F. Pang
E-mail: pangy1@asme.org

MONTHLY MEETINGS

(2nd 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, April 9th, 2008

Location: Virtual Meeting, held online

Contact: Ying F. Pang (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