

## Engineers Needed Staring in April

### *A World in Motion: The Design Experience*

To survive and thrive in the society of tomorrow, our children need educational preparation that builds upon the technology of today. The needs of our society mandate that we educate student to be scientifically and mathematically literate and to be able to solve problems, communicate, ask and answer questions, assimilate information, and work cooperatively toward common goals.

*A World in Motion: The Design Experience* project has been developed to give students the opportunity to use science, mathematics and technology to explore the process of design. During the 8-12 week experience, the students will engage in a problem-solving context for which they must create a design to address a particular need. In this case, the challenge is posed in a letter from a fictitious toy company which is interested in receiving new designs for moving toys. The toy company sends a letter to the class requesting written proposals, sketches, and working models of designs that meet a specific set of requirements. Over the course of the curriculum, a variety of activities will prepare the students to develop a proposal and a prototype for a toy of their own design. The students must work in teams, and as a team complete the requirements stated in the letter. The program culminates in student presentations of their working models and a discussion of the design teams' efforts to address the challenge.

Throughout the design process, community volunteers can help by sharing knowledge and experience to the process of design, production and engineering.

(Continued on page 5)

---

### INSIDE THIS ISSUE

---

- 1 Local Section News
- 2 ASME/Auxiliary FIRST Scholarships
- 2 Old Guard Early Career Award
- 3 Nominate a Future ASME Leader
- 3 ASME E-Library
- 4 Calling History & Heritage Chairs
- 5 Engineering Needed cont.

### January Program

**Topic:** Displacement Rotary Lobe Blowers

Principals of operation and their application

**Speaker:** Connie Rimes

**Date:** Thursday, January 22<sup>th</sup>

**Time:** 11:30 A.M. – 1:00 P.M.

**Location:** Giuseppe's Restaurant

**RSVP:** Brie Witherspoon by Monday, January 19<sup>th</sup>

## Call for Nominations: Old Guard Early Career Engineer Award

Recognize outstanding early career engineers who actively involve themselves in their profession, their communities, and the work of ASME!

The Old Guard Committee honors ASME members that have made great strides in the engineering profession, community and the work of the Society by sponsoring this Award, established in 1994. Eligible applicants must be a current ASME member who has received a baccalaureate degree in mechanical engineering between Feb. 1, 2003 and Feb. 1, 2005.

A Grand Prize of **\$5,000 cash plus an ASME prepaid life membership** will be awarded to one successful candidate at the 2009 ASME International Mechanical Engineering Congress and Exposition. All contestants will be notified of the Committee's final decision by July 1. Two Runner-Up Prizes of prepaid life membership may also be awarded. All prize winners will receive a plaque as a commemorative gift.

Nominations **must** be received by **Feb. 1, 2009** to be considered for the award. All applications should be accompanied by supporting documentation, a copy of the nomination form, and forwarded to Cheryl Hasan at [hasanc@asme.org](mailto:hasanc@asme.org) c/o Old Guard Early Career Award.

For the nomination application and more information visit

<http://files.asme.org/asmeorg/Communities/EarlyCareer/8026.pdf>.

## 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 open volunteer positions and groups needing enthusiastic volunteers for their ASME local, District and/or national level committees. Designed to help volunteer leaders promote and fill volunteer positions throughout ASME, the VOBB opens the door to new opportunities.

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



## ASME – ASME Auxiliary *FIRST* Clark Scholarship

Are you a *FIRST* Robotics volunteer? Did you know that the ASME Foundation and the ASME Auxiliary sponsor a scholarship specifically for HS seniors who are on a *FIRST* Robotics team? If so, this information is for you!

### About the Award

The *FIRST* Clark Scholarship recognizes and rewards students whose *FIRST* experience has inspired the pursuit of an engineering career. In 2009, the ASME Foundation and the ASME Auxiliary will award eight \$5,000 scholarships to high school seniors active on *FIRST* teams, who are nominated by ASME members, ASME Auxiliary members, or student members who are also active with *FIRST*. These awards will be for the freshman year of study (non-renewable) in an accredited mechanical engineering or mechanical engineering technology program. The recipients will be announced at the *FIRST* National Championship.

### Nomination and Student Eligibility

Members of ASME, including ASME Auxiliary and student members, may nominate no more than one student each. Students must be:

- Graduating high school seniors active on *FIRST* teams
- Planning to enroll full-time in an ABET-accredited or substantially equivalent mechanical engineering or mechanical engineering technology program, no later than the fall after their senior year in high school.

**APPLICATION DEADLINE: MARCH 15, 2009**

### ***Tomorrow's ASME Leaders: Are You Ready for the Challenge?***

Do you feel strongly about the direction you would like ASME to take? Are you passionate about new ideas and initiatives? Are you ready to step up and lead? If so, why not become an ASME leader today!

Consider running in June 2009 for the following offices:

**ASME president — one-year term**

**Board of Governors member — three-year term**

In addition, the Nominating Committee is currently accepting nominations for five ASME vice president positions, each carrying a 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 Communities Sector)

Vice President of Financial Operations (Knowledge and Communities Sector)

Please visit the Nominating Committee Website for information on "How to run for a Society Office"

[http://www.asme.org/Governance/Nominating/Nominating\\_Committee.cfm](http://www.asme.org/Governance/Nominating/Nominating_Committee.cfm)

or contact RuthAnn Bigley at [bigleyr@asme.org](mailto:bigleyr@asme.org).

#### **VOLUNTEERS NEEDED! ENGINEER YOUR LIFE**

Help Inspire the Next Generation of Young Women to  
Become Engineering Leaders!

ASME (as part of its Engineers Week collaboration) actively supports Engineer Your Life (EYL), the national campaign to encourage college-bound girls to consider engineering enrollment.

A key element of EYL outreach is collaboration with the college counseling community through the National Association for College Admission Counseling (NACAC). We are asking for volunteers – engineering and engineering students – for high school fairs throughout the U.S. this fall.

Cities, dates and locations of fall fairs can be found at [http://www.eweek.org/site/pdfs/college\\_fair.pdf](http://www.eweek.org/site/pdfs/college_fair.pdf) For more information or to sign up, contact Marina Stenos at 212 591 8614 or [stenosm@asme.org](mailto:stenosm@asme.org). For more information about Engineer Your Life, visit [www.EngineerYourLife.org](http://www.EngineerYourLife.org)

#### **ASME Salary Survey**

Participate in ASME's Salary Survey get a **FREE** salary report based on your experience level and geographic area. Visit <https://asme.enetrix.com> and see how you compare! **ASME Member Exclusive!** Purchase comprehensive, custom reports at a discount price.

#### **ASME E-Library**

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, go to <http://www.asme.org/Membership/Benefits/Professional/eLibrary.cfm>"

#### **Call for Mentors! EMentoring Opportunities for Early Career Engineers.**

Mentors are a great way to gain knowledge and learn from the experiences of experts in your field. ASME offers an e-mentoring service right at your fingers!

To learn more and sign up for mentors, or to register to become a mentor, log onto [http://www.asme.org/jobs/mentoring/Ementoring\\_Early\\_Career.cfm](http://www.asme.org/jobs/mentoring/Ementoring_Early_Career.cfm) or contact Noel Netel at [neteln@asme.org](mailto:neteln@asme.org)

## Where Have All the History & Heritage Chairs Gone?

In 1997, Paula Cole had a top-20 hit entitled, "Where Have All the Cowboys Gone?" Though I wasn't a great fan of the song, I can't seem to stop the tune running through my mind as I lament ... where have all the History & Heritage Chairs gone?

Several years ago, I proudly served as the Regional H&H Chair for the old Region X, which encompassed Texas, Oklahoma, Arkansas, Louisiana, and Mexico. We had a vibrant, active History & Heritage program, with designated H&H Chairs in most Sections. Over a 3-year span from 2002-2006, various Sections across Region X submitted 16 Landmark nominations, and achieved & designated seven new Landmarks; a regional pipeline that generated an average of two new Landmark designations per year. Yet, in 2007, there were none. In 2008, there was only one new Landmark designation. What happened?

"Ok..." I think, "maybe my old stomping grounds is an anomaly. I'll look at the Society in general." A short 15 minutes of research proved that Region X is not an exception, but rather the rule, as what I discovered was not encouraging.

From 1995-2005, the Society - as a whole - designated an average of five Landmarks per year. Furthermore, in this 10-year timeframe there were *never* two consecutive years in which fewer than five Landmarks were designated. However, in 2007 & 2008 only **two** new Landmarks have been designated, *in total*.

Only a few years ago, the majority of local Sections throughout the country had a History & Heritage Chair - a single history-minded individual who scanned his/her geographical area for bits of engineering that might rise to the significance of Landmark, who networked with other H&H Chairs throughout the country, and who championed the formidable yet satisfying task of identifying, nominating, and designating new Historic Mechanical Engineering Landmarks. Unfortunately, as I search Section websites today, I find to my dismay that the majority of such positions have been vacated or, worse...eliminated.

Is our Landmarking program dying?

The Landmarking program is an integral component of the Society's public awareness strategy. Landmarks serve as constant visible reminders of the rich heritage and contribution to society of our chosen profession, a profession that has shaped not only our own lives, but the lives of billions of individuals throughout the world in fields as diverse as agriculture, manufacturing, food processing, aviation, energy, transportation, recreation, and more.

It is by celebrating the past achievements of our profession that we most effectively educate the public as to the societal value of Mechanical Engineering, and inspire future generations of engineers to follow in our footsteps.

I write this article as an open call for the support of all members who have so much as a passing interest in the history of Mechanical Engineering. I know you are out there, and I ask you to join me in reviving our Society's History & Heritage Landmarking program.

Getting started is but a few mouse-clicks away. Navigate your browser over to the *ASME History & Heritage Community* on ASME Peerlink, the Society's online networking tool. Start a thread, post a question, or just join in & add your thoughts to a general discussion. Peerlink offers us the opportunity and capability to meet from half-way around the world, to learn from past experiences, share ideas & opportunities, and to create a support network to encourage and assist each other in identifying Landmark opportunities and turning them into official Landmarks.

Take the first step. Join me at <http://peerlink.asme.org/COP/HistoryandHeritage/> or email me directly at [mwpowell\\_08@yahoo.com](mailto:mwpowell_08@yahoo.com). I look forward to working with you!

Mark Powell

## **Engineers Needed**

*A World in Motion: The Design Experience*

### **continued from Page 1**

The following includes a partial list of the kinds of roles and task that volunteers might engage in as support to the program:

- Explain what designers and engineers do
- Share examples of design logs and journals
- Share examples of various gears
- Discuss how to conduct market research
- Demonstrate how to create design sketches
- Share your resume
- Act as an advisor to a design team, and
- Review final presentations.

Volunteers' participation can be a brief presentation to the students, or it may be as involved as a continuing support role in the design experience. The extent of the volunteers' participation will depend on the volunteers.

### **Volunteers will be needed starting in April.**

For more information contact:

Mary Bailey

Ext: 8944

Email: [marybailey@eastman.com](mailto:marybailey@eastman.com)