

## Section Young ME of the Year Awarded to Section Chairman

**G. Mitchell Lowe** is this year's recipient of the Holston ASME Young Mechanical Engineer of the Year award. Mitchell has been a vital member of the Holston Section for the last 10 years. He has been committee chair for 7 different offices in the Holston Section over that timeframe and is currently the section's Chairman. Mitchell is employed by Eastman Chemical Company as a Senior Mechanical Engineer where he has distinguished himself as a corporate expert on rotating equipment technology. A graduate of the University of Tennessee, Knoxville, Mitchell is a Tennessee Licensed Professional Engineer.

*-Jeremy Shuppert*

### March Program

Tour of John Deere Manufacturing  
Greeneville, TN



Time: 3:00pm, March 17<sup>th</sup>, 2005

Contact: Chad Rolstad  
423-392-3773  
chad.rolstad@weyerhaeuser.com

RSVP: March 14, 2005

### Professional Development Course

Pump and Valve Selection for Optimum  
System Performance

**Date:** 04/18/2005 - 04/20/2005

**Location:** Kingsport, TN

**Cost:** \$795.00

**CEU's/PDH's:** 2.2/22

Contact: Chris Slaughter 423-229-5287

[cslaughter@voridian.com](mailto:cslaughter@voridian.com)

### Description:

This course provides an understanding of pumps and valves and how they interact for optimum system performance. It also helps you to make cost-effective choices and avoid poor system operation. Learn hydraulic theory as it applies to pumps and valves, as well as criteria for the selection of pumps and valves. This course offers a unique opportunity to learn more about the interaction of these two major equipment items and their applications into systems.

### About the Instructor:

William R. Hayes, P.E., president of W.R. Hayes Assoc., a consulting firm specializing in engineering-related pump and valve applications, new product development and product line evaluation. Hayes has extensive experience working on pump and valve design and application programs for Fairbanks Morse, ITT Bell and Gossett, ITT Hoffman/Lawler and Ingersoll-Rand. Most recently he was chief engineer of the Tufline Division of Xomox Corporation. Mr. Hayes holds several patents in both the pump and valve fields.

## 2005 Educational Initiatives Grants

The Holston Section of the ASME is again sponsoring an Educational Initiatives Grant Program in our region. Email notifications about the Grant process have been sent to all school superintendents in the Holston Section regional area; however, not all math and science teachers may be notified. ASME needs all members to help get the word out to schools in our region. If you know a teacher, why not mention to them that there will be grants available and tell them how to find the information?

It is our goal to support and promote technical training for students, K-12, so that they may be inspired to pursue a career in a technical field. The issuing of grants to schools in the Southwest Virginia / East Tennessee area is an important part of the program. These grants are being made available to fund or supplement projects that provide further student exposure to scientific and mathematical studies in the classroom where they would not otherwise be provided by the school system. In the past, ASME has been able to award grants in the range of \$500 to \$1000.

Visit the Educational Initiatives Grant location on our Holston Section ASME home page at [www.asme.org/sections/holston](http://www.asme.org/sections/holston) to find out more and download and application. All applications must be received by March 28, 2005. The award winners will be notified in April, and awards will be made in May, 2005. Late applications will not be considered. Applications may be emailed to [davidc@eastman.com](mailto:davidc@eastman.com) or sent by US Mail to David Copenhaver; Eastman Chemical Company; P.O. Box 511, B-120; Kingsport, TN 37662.



Obtain credit for Professional Development Hours in the Process Technology presentations offered at eChemExpo March 17 at Meadowview. The local AIChE chapter will certify PDH credit for attendees who request it. This is an opportunity to obtain PDH credit with no cost for enrollment or travel. Presentations on the Process Technology track total 5 hours. One presentation is an hour long and the others are half hour sessions. Attendees may obtain one PDH for the full hour session and one half PDH for each half hour session.

Register now at [www.eChemExpo.com](http://www.eChemExpo.com) to save time on site! Plan your day in advance by:

- Clicking on the "Conference" button to view the 16 seminar topics and schedule (Note that PDH credit applies only to sessions on the Process Technology track)
- Clicking on the "Solutions Marketplace" button to view the 70 exhibiting companies

When registering for eChemExpo, you do not specify which technical sessions you will attend. To obtain PDH credit; in each session you attend, you must add your name on the sign-in list and mark the column to indicate your request for PDH credit.

### ASME Members Save on FedEx® Shipping

As an ASME member, you're now entitled to receive special discounts on select FedEx® shipping services.

- **Save up to 21%**
- **It costs nothing to enroll**
- **There are no minimum shipping quotas**

So the next time you need to ship pages of technical specs, an oversized blueprint, or a mechanical prototype, choose FedEx delivery services.

Why not use the best, especially when you can pay less? For more details on how you can start saving today, call **1-877-848-3349** and mention **code 13**.

## December Program – Computational Fluid Dynamics

In December, Heshmat Massah, a Senior Account Manager for *Fluent Inc.* presented a lunch program on the application of computational fluid dynamics (CFD) to the racing industry. As an example, he talked about open wheel racing.

“The auto racing industry is increasingly relying on CFD—as opposed to wind tunnel experimentation—to improve the efficiency of racing cars. Efficiency is the ratio of hydrodynamic downward force to drag force. Downward forces are needed for higher speed during cornering and efficient breaking. Efficient parallel processing allows designers to use millions of cells for much-needed detailed modeling of multiple cars. Up to a few hundred computers are used to carry out the calculations in a reasonable time.”

## Turbo Expo 2005 to Host Gas Turbine Power Summit

An all-star panel of five of the world's leading power industry executives will be featured the keynote session at Turbo Expo 2005 in Reno, Nev., June 6-9.

Presidents and CEOs from GE, Pratt & Whitney, Rolls-Royce and Siemens Westinghouse Power will discuss future technology needs and market opportunities for gas turbines. Turbo Expo celebrates 50 years as a premier event for the international gas turbine community. For more details visit the Web site at <http://www.asme.org/igti/events/te2005/keynote.html>, or contact Kevin Gaffney at [gaffneyk@asme.org](mailto:gaffneyk@asme.org)

## EMentoring for Early Career Professionals

It's convenient and a great way to set the stage for a fulfilling professional career. Sign up for one of our MENTORS - a network of practicing engineers that can offer you advice, direction and provide you with resources that you can use to manage your career. Participation will give you the opportunity to expand your knowledge base, increase your communication and leadership skills and much more. <http://www.careerlifeguide.asme.org/recentgrad/ementoring.html>

## ASME Past President Win Phillips Named to National Medal of Science Committee

President George W. Bush has appointed Win Phillips, Ph.D., vice president for research at the University of Florida, Gainesville, and past president of ASME, to serve a three-year term on the Committee on the National Medal of Science, the nation's highest scientific honor. The award, established in 1959, recognizes individuals who have made outstanding contributions to knowledge in the physical, biological, mathematical or engineering sciences. Dr. Phillips will serve along with 12 scientist and engineers appointed by the president to evaluate nominees for the award.

## Partners In Mechanical Engineering Grants Available

The Board on Diversity and Outreach is accepting applications for Partners in Mechanical Engineering grants. All ASME Sections are eligible to apply. Grants are made on a first-come, first-served basis. For more information, go to <http://www.asme.org/communities/diversities/bdo/partners.html>

## Recap of January Program on Energy Efficient Homebuilding

The January 20 Holston Section ASME Lunch Program featured David Hrivnak's presentation on Energy Efficient Homebuilding. The luncheon held at Giuseppe's was attended by several members. David provided detailed information on the key aspects of Energy Efficient Homebuilding. The presentation included a review of David's two Passive Solar Designed homes, one of which was featured in the magazine "Solar Today". The interactive discussion included pictures, economic analyses and other interesting details, most of which can be found on David's website on Energy Efficient Housing at [users.chartertn.net/dhrivnak/](http://users.chartertn.net/dhrivnak/)

-Larry Bailey

## ASME Offers Communities of Practice

Want to talk to your peers about technical matters, career and personal interests? Want to do that without going to a meeting or even leaving your desk?

ASME offers you a new tool to communicate, get the information you need and meet others with similar interests and concerns at the new ASME Communities of Practice site.

On the CoP site, you can join a community, suggest a new community, participate in discussions and polls, and post your own message or request to be notified when messages are posted on the community. It's your choice what communities you participate in, and how you choose to participate.

You will need to register the first time that you use the page, and set your preferences for your home page. It only takes a few moments – then you are ready to participate, or just observe the discussions. To date, there are already 143 communities and approximately 2,200 users. To visit the site, and test the features, go to [www.cop.asme.org](http://www.cop.asme.org)

## FasTrack: Share Your Experience.

1. When you first started your career - what was the biggest lesson learned on the job?
2. What is the underlying foundation for career success today?
3. How do you keep up-to-date within your industry?
4. What advice would you give a recent engineering graduate looking for work?
5. Has your involvement in ASME changed or influenced your career path?

Submit responses to Cheryl Hasan at [hasanc@asme.org](mailto:hasanc@asme.org). The first 5 to respond will receive *The Engineer Entrepreneur*, by Daniel T. Koenig (A \$65 value). Offer expires Friday, March 18, 2005, 10:00am.

Book details:

<http://members.asme.org/catalog/ItemView.cfm?ItemNumber=801934>

Replies will be featured in the FasTrack e-zine (<http://www.asme.org/youngengineers/fastrack/>) called "Q&A with Experienced Engineers (Five Career Questions Asked)".

Please include your name and job title, as it will be included.

The FasTrack is emailed to early career members. It provides quick online access to what's new and current in professional & technical resources including highlighting featured member benefits and enhancements, etc.

## Student Activity Calendar

### April

April 10 Entry Deadline: [Solar Splash](#)

April 15 [Summer/Fall Student Loans](#) – application deadline

April 15-16 [Fundamentals of Engineering Exam](#)

April 30 [Human Powered Submarine Contest](#) – Closing Date for application and fee

April 30 [2005 ASME Student Mechanism Design Competition](#) – Letter of intent due

Attend your [Regional Student Conference](#)

### May

May 16 [Student Manufacturing Design Competition](#) – project description due

### June

June 1 Letter of intent for [Hydro Power Contest](#)

June 10 [Solid Waste Processing Division](#) – Scholarships for graduate and undergraduate study – application due

June 30 [Student Section officer listing](#) due

June 30 [Student Section financial report](#) due

## Continuity & Change Update

### PMTF Decisions Continue Transition Process

The Project Management Task Force (PMTF) has made several key decisions enabling the Continuity & Change effort to move forward:

- All governing units of Sectors will be called Boards of Directors, replacing the current committee/council structures;
- The Center for Professional Practice and Development has been renamed as the Center for Professional Development, Practice and Ethics;
- And, a new project team template has been approved for [Knowledge & Communities](#).

For the latest information on Continuity & Change, log onto the newsletter:

<http://www.asme.org/change/IINEWSLTR0105.htm>