

## Plant Tour of Hov-Aire, Inc.

The Central Michigan Section will be hosting a tour of the Hov-Aire, Inc. facility in Vicksburg, MI, on March 29<sup>th</sup>. The facility is located in a former paper mill structure. Their activities are focused on historic airframe/aircraft reconstruction. They have a particular niche in work relating to Ford Tri-Motor aircraft.

### Link to photos of a recent Tri-Motor project

<http://www.putinbayphotos.com/hovaire/hovaire.htm>

The plant tour is scheduled to begin at 7 PM at 6321 East W Avenue, Vicksburg, MI.

For those interested in a meal preceding the meeting, we will meet at the J. Bean Café in downtown Vicksburg, 109 East Prairie. at 5:30 PM. Selections will be available from the standard menu.

Please contact Jerry Dahl for reservations at 269-833-8232 or [jerry.s.dahl@pfizer.com](mailto:jerry.s.dahl@pfizer.com).

## Elections for the 2005-2006 Executive Committee

The slate of committee members has been proposed and is listed below.

Chairman – Peter Ried

Vice Chairman – Leon Montgomery

Treasurer – Dean Cross

Secretary – Jerry Dahl

Ex-Officio – Jerry Dahl

Executive Committee

- Tom Michelhough

- Bob Morgan

- John Lobo

- Koorosh Naghshineh

- Dave VanDoren

- LeRoy Reiss

We will once again be conducting an electronic ballot through our Section website. An e-mail announcement will be broadcast when the ballot is available and open.

## Professional Development Workshop Series: Entrepreneurship

The first of three seminar sessions is scheduled for March 23, at 6 PM. Please review the information summary included later in this newsletter for a complete course description. For further information or reservations please contact Peter Ried at (269) 327-3097 or [<pried\\_imagineer@netzero.net>](mailto:pried_imagineer@netzero.net).

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## Celebrating 125 Years of ASME

Log onto [www.asme.org/anniversary](http://www.asme.org/anniversary) for up-to-date information on events for ASME's 125<sup>th</sup> anniversary, as well as how your local section can become involved.

### 125<sup>th</sup> Anniversary News

#### Comic Book Engineering

A new comic strip series about engineering has been developed to help young readers learn about engineering. *Heroes of Engineering* will feature monthly short stories covering 12 decades of significant mechanical engineering feats. The series was created as an online medium to educate young people about what engineers do and how they affect our lives. *Heroes of Engineering* is available on the ASME anniversary Web site at [www.anniversary.asme.org/](http://www.anniversary.asme.org/)

### 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/igt/events/te2005/keynote.html>, or contact Kevin Gaffnev at [gaffnevk@asme.org](mailto:gaffnevk@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>

### Engineers Without Borders Needs Mentors!

Interested in contributing your professional and technical knowledge to make the world a better place? Want to support engineering students as they help others while learning the practical aspects of engineering? Become a mentor for an Engineers Without Borders, USA (EWB-USA) team!

By becoming a professional member of EWB-USA, you will have the opportunity to mentor student projects in your local area and across the world. Each month, we send mentor opportunities to our network of professionals. EWB-USA is looking for engineers with an interest and expertise in such areas as fundraising, project management, water resources, renewable energy, structural design and cultural knowledge.

As a project mentor you will oversee all the technical aspects of a project and be responsible for the selection of technology, engineering design, and prototype testing and field implementation. Along with the technical aspects of engineering, an understanding of sustainable engineering practices, openness to learning about sustainable practices in other cultures and a sense of adventure are needed!

For information on mentoring, a complete list of current projects and to volunteer, visit the EWB-USA website at [http://www.ewb-usa.org/get\\_involved\\_professional\\_mentor.html](http://www.ewb-usa.org/get_involved_professional_mentor.html).

## 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>

## 17 ASME Student Sections Receive Over \$22,000 for Outreach Programs

ASME's Board on Diversity and Outreach (BDO) has awarded \$22,250 to 19 ASME Student Sections to promote activities, which result in attracting more women and minorities to become active in ASME and in the engineering community. The monies are awarded through BDO's Diversity Action Grant (DAG) Program, a competitive grants program open to all ASME Student Sections. Detailed information on the DAG Program may be viewed at <http://www.asme.org/communities/diversities/bdo/dag.html>. The deadline for applying for grants for the 2005-2006 academic year is November 1, 2005.

### Engineers Needed to Help in Middle School Science Classes

RE-SEED (Retirees Enhancing Science Education through Experiments and Demonstrations) is a Northeastern University program that prepares engineers and scientists to provide in-classroom support to middle school science teachers with teaching the physical sciences.

After completing a comprehensive FREE training program, participants volunteer in a middle school on a regular basis often with another volunteer as a partner. Since RE-SEED began in 1991, close to 500 volunteers have been trained in about 100 communities throughout the country offering about 500,000 hours of their time.

Upcoming training programs will be held in Massachusetts (Boston, Lowell, and Worcester areas), New York (West Nyack), and California (Palo Alto). If you would like to participate, but do not live in one of these areas, we will work with you to explore the possibility of starting a RE-SEED chapter in your area. You can reach us at 888-742-2424 or [reseed@neu.edu](mailto:reseed@neu.edu). You can also visit us on the web at [www.reseed.neu.edu](http://www.reseed.neu.edu).

### ASME Distinguished Lecturer Presentation, "Fuel Cell Technology – A Myth or Reality", Ramesh K. Shah, Ph.D., April 5, Western Michigan University

The Central Michigan Section will be hosting the lecture presented by Dr. Shah at Western Michigan University Engineering Campus. The lecture will be held in rooms D204 and D205, starting at 7 PM.

The fuel cell technology is an emerging technology for electric power generation for stationary, mobile and portable applications. Replacement of fossil fuel based power with fuel cell power for stationary and mobile applications can make a significant impact on efficiency improvement for power generation and reducing emissions. There are no moving parts in a fuel cell reducing noise pollution as well as increasing reliability. Fuel cell energy conversion efficiency is practically independent of the power plant size and increases at part load operating conditions. A variety of bio-fuels from renewable energy sources and chemical intermediates can be used in fuel cells in addition to conventional fossil fuels by fuel reforming processes as appropriate for the specific types of fuel cells, thus reducing the fossil fuel dependency in future as the fuel cell technology matures.

While tremendous technological progress has been made in the last 10 years, it is going to take another 10 years for considerable penetration of power generation by fuel cell systems. Starting with the basic operation of a fuel cell, current state of technology will be summarized for stationary, mobile and portable power generation. This will include the basic operation of a few important fuel cells (proton exchange membrane, solid oxide and direct methanol fuel cells) as well as the current state of technology. Major challenges will be summarized with these fuel cells to make commercially viable for portable, automotive and stationary power generation applications.

For those members interested in dinner preceding the lecture, we will be meeting at Gallagher's Eatery, 4210 Stadium Drive at 5:30 PM for a social period with dinner following at 6 PM. The menu will be Top Sirloin Steak – 8 oz, with salad and baked potato, Blackened Salmon, with vegetables or Portabello Chicken Breast covered with sautéed mushrooms, Monterey jack cheese, tomato & onions with vegetables. Non-alcoholic beverages, coffee, tea or milk are included. Member price is \$20. Student price is \$10. For reservations for the lecture or dinner please contact Jerry Dahl at 269-833-8232 ([jerry.s.dahl@pifzer.com](mailto:jerry.s.dahl@pifzer.com)), or Tom Michelhaugh at 269-327-5145 ([michelha@chartermi.net](mailto:michelha@chartermi.net)). A reminder notice for the lecture will be in the April Newsletter as well.

## Local Section

### Professional Development Workshop Series: Entrepreneurship

6:00 p.m. – 10:00 p.m. Wednesday, March 23, 2005

Superior Room, Dana Corporation, 6938 Elm Valley Drive, Kalamazoo, Michigan

<[http://maps.yahoo.com/maps\\_result?ed=mfUIPep\\_0Trbk4ghXiXJBbxz2tXlw916sYGicplk&csz=Kalamazoo%2C+MI&country=us&new=1&name=&qty=>](http://maps.yahoo.com/maps_result?ed=mfUIPep_0Trbk4ghXiXJBbxz2tXlw916sYGicplk&csz=Kalamazoo%2C+MI&country=us&new=1&name=&qty=>)

(SW corner of I-94 and exit 72)

The ASME Central Michigan Section is pleased to announce an upcoming workshop entitled...

#### *“An Entrepreneurial Overview; Is It for Me?”*

This overview is the first of a 3-part series of information and discussion sessions on business formation. It is offered to individuals and small groups who have a serious interest in exploring the possibilities of developing and starting a business. It focuses on the strategic thoughts and actions necessary for business formation and explores how these activities compare and contrast with an individual's objectives and goals.

Some of the topics covered during this program are:

- Avenues to small business ownership
- Why many small businesses fail
- The personal attributes and experience required for success in a small business
- Business plan development-the need for a road map
- The business team—selecting professional resources
- Support for business development-where do I go from here?

The \$60/person/part program fee includes a participant's workbook and supplemental materials.

Advance registration and payment is required by Monday, March 21 2005 to ensure a seat.

Pizza and refreshments will be provided for all attendees.

Blaine (Sandy) Miller of BHM Associates will conduct the workshop. Sandy has over thirty-five years of experience in business management, project planning and development, production, product development, human resources planning and administration, and financial services with both small and large firms in R&D and operations.

Mr. Miller's experiences and perspectives are drawn from a wide range of industries including veterinary and human pharmaceuticals, synthetic lubricants, mineral ore processing and multi-media software development. His recent projects have included resources/business planning, valuation assessment and compensation planning along with business management, fund development and even marketing for a non-profit health care clinic.

This diverse background gives Sandy a unique perspective and a well-developed sense of the needed people skills, along with the ability to identify essential elements in the business development and implementation process.

Mr. Miller has an undergraduate liberal arts degree with a major in chemistry from Dartmouth College and a Masters in Business Administration from Central Michigan University.

For further details and reservations, please contact Peter P. Ried, Jr. Vice Chairman for the Central Michigan Section at (269) 327-3097 or <[pried\\_imagineer@netzero.net](mailto:pried_imagineer@netzero.net)>.