Chairman’s Corner

Chair’s Message – Eric Huston

It’s Spring 2011 - time for the next edition of our Plant Engineering & Maintenance Division newsletter. Let me begin by wishing everyone a healthy and prosperous 2011.

During the past year, your executive committee supported by some great staff at ASME headquarters, have been putting a lot of time and effort into revitalizing PEMD into an active, self-sustaining division that provides value to its membership. This effort has included recruitment of volunteers to join the PEMD leadership team. I am pleased to announce Greg Coil as the newest member of our executive committee.

In early March, the executive committee participated in the ASME Congress of Divisions and Leadership Training Conference in Dallas. A primary focus of this activity was also a full day meeting to establish a long-term strategic plan to guide the future direction of our technical division. We have included our new vision and mission statements in this newsletter, and welcome your feedback on these. We will soon start communicating additional details of the strategic plan for your review as well.

The response to our 2010 membership survey identified TRAINING as a top priority to provide value to you, our membership. Therefore, we have devoted the majority of this newsletter to this topic.
Typically in these messages the writer points out how large a division we are (....over 15,000 members of which more than 3,500 have selected PEMD as their primary technical interest!). Unfortunately, size means nothing without involvement. We need your involvement. We need PEMD members who are active in regional Sections to help us establish Plant Engineering and Maintenance liaison activity. We also need members interested in starting related technical committees. Please contact anyone on the executive committee if you have an interest.

Get the most out of your ASME membership. Get INVOLVED.

PEMD Direction
The Plant Engineering and Maintenance Division (PEMD) Executive Committee has been meeting each month on a conference call setting the stage to layout the direction to revitalize PEMD. This past March, the revitalization direction was established and we are moving forward. It starts with the initial draft of the PEMD vision and mission statements followed by a Strengths, Weaknesses, Opportunities and Threats (SWOT) analysis that led to identification of areas for action plan development. You can read the minutes from the March 2011 PEMD Executive Committee for more details on the PEMD Web page: http://divisions.asme.org/PEMD/

**Vision:** We will be THE essential resource to INDUSTRY for engineering and maintenance solutions that foster a cleaner, healthier, safer and sustainable world

**Mission:** To serve INDUSTRY through our membership by advancing, disseminating and implementing plant engineering and maintenance knowledge through the continuous improvement of production processes

One focus area of involvement for PEMD is conference presence. There are two 2012 conferences we are targeting for PEMD collaboration/participation. If you have interest in one of these conferences and would like to volunteer to be part of a panel discussion, assist in the organization of the conference, etc., please contact Sam Black at 225-642-7606 or Samuel.Black@Honeywell.com.

- **2012 ASME International Manufacturing Science and Engineering Conference (MSEC) at Notre Dame, Indiana.** At the MSEC, you will join colleagues discussing research across a wide range of materials, processes and manufacturing systems topics.

- **2012 ASME International Mechanical Engineering Congress & Exposition (IMECE) – location to be determined.** The annual ASME IMECE is a premier global conference that focuses on today’s technical challenges, research updates and breakthrough innovations that are shaping the future of engineering. The Congress convenes engineers, scientists and technologists of all disciplines for the purposes of exploring solutions to global challenges and for the advancement of engineering excellence worldwide.

More K.A.S.H!
Do you find yourself needing more KASH? No it’s not a misspelling, Knowledge, Attitude, Skills and Habits (KASH). The more KASH we accumulate, the more valuable we are in the marketplace and we will be more in control of our career path. OK, you can’t afford to attend a short course because of the travel cost as well as trying to get time off from work to attend. ASME offers short courses at your company location, online courses, and DVDs. There is bound to be a way for you to get the information you need to improve your KASH.
ASME has an extensive selection of training and educational opportunities available. The industries supported are wherever mechanical engineers work, including; aerospace, bioprocess, chemical processes, consulting, manufacturing, power plant and water management for all engineering experience levels. The course content includes specific application training, such as design and application of a flanged joint (The Bolted Joint Combo short course) and through general training such as Lean Manufacturing (online course). In addition to technical courses, there are courses focusing on the non-technical aspects of an engineer’s job, such as; project management (Project Management for Engineers Online Course), team leadership (Leading Individuals and Project Teams Online Course) and marketing (Marketing and Sales for Engineers short course).

To list all the courses and resources available is not possible in this newsletter, however, the following are a few that maybe useful for you. To search the complete list of ASME courses, visit http://www.asme.org/kb/courses.

1. Plant Engineers (Power, Process, Chemical)
   a. Operation, Maintenance and Repair of Plant Piping Systems
      (Short Course # PD398)
      This short course introduces operations, engineering, maintenance, and inspection personnel to the technical bases for safely and cost-effectively operating, maintaining and troubleshooting plant piping systems. Each participant will receive a copy of the book, Fitness for Service & Integrity of Piping Vessels and Tanks: ASME Code Simplified, by George Antaki, and the ASME codebook, PCC-2 - 2008 Repair of Pressure Equipment and Piping. This course is taught by George Antaki (Aiken, South Carolina), a fellow of the American Society of Mechanical Engineers, and serves on several ASME technical committees, including ASME B31 Mechanical Design Committee, ASME Post-Construction Executive Committee, ASME Subcommittee on Repairs and Testing. He is chairman of the Pressure Vessel Research Council Subcommittee on Dynamic Analysis and vice-chairman of the joint ASME-API Committee on Fitness-for-Service.
   b. Fundamentals of Process Safety
      (Short Course # CH500)
      This short course covers the fundamentals of what engineers and managers in diverse chemical engineering industries need to know to keep their hazardous materials where they belong. It discusses how to accurately identify, classify, and evaluate process hazards, and then rank them by how likely they are to precipitate an industrial accident. This course is taught by Brian D. Kelly, PE, principal of Bririsk Consulting, Canada, with 31 years of technical and management experience in the oil industry, having held positions responsible for engineering, project development, plant operations and loss prevention.
2. Facility Engineers

a. Flaw Evaluation, Repairs and Alterations of Pressure Equipment
   (Short Course # ZI209)
   This online course covers subjects related to maintenance of in-service pressure equipment. Once a vessel or other equipment is stamped and put in service, the jurisdiction of construction codes ceases and the rules of post-construction codes and standards become applicable. This is taught by Kamran Mokhtarian, PE, with 40 years of experience in design, analysis and fabrication of pressure equipment.

b. Operation, Maintenance and Repair of Plant Piping Systems
   (Short Course # PD398)
   This short course introduces operations, engineering, maintenance, and inspection personnel to the technical bases for safely and cost-effectively operating, maintaining and troubleshooting plant piping systems. This course is taught by George Antaki, a practicing mechanical engineer, active in the field of equipment and systems design, procurement, construction, inspection, maintenance, fitness-for-service, and failure investigation.

3. Maintenance Engineers

a. The Bolted Joint Combo Course
   (Short Course # PD601)
   This is a combination of 3 short courses provided in a single course.
   PD539 – The Bolted Joint, PD386 – The Design of Bolted Flange Joints and PD577 – Bolted Joint Assembly Principles Per PCC-1-2010. These three courses are for engineers involved in the design, construction or maintenance of pressurized equipment utilizing flanged joints for the petroleum, refining, chemical, power, and process industries; practicing design and manufacturing professionals involved in assembly of electro-mechanical hardware and engineers and technicians in design and assembly operations. PD601 is taught by James Payne, PE who established JPAC Inc. in 1981 to provide mechanical engineering consulting services, specializing in bolted flanged joints and gaskets; William Koves, PhD, PE, ASME Fellow, with over 40 years of experience in the design and analysis of pressure equipment and David E. Lay, BS, MBA, the director of Training for Hytorc, the largest manufacturer of hydraulic bolting tools.

b. Flaw Evaluation, Repairs and Alterations of Pressure Equipment
   (Short Course # ZI209)
   This online course covers subjects related to maintenance of in-service pressure equipment. Once a vessel or other equipment is stamped and put in service, the jurisdiction of construction codes ceases and the rules of post-construction codes and standards become applicable. This is taught by Kamran Mokhtarian, PE, who has 40 years of experience in design, analysis and fabrication of pressure equipment.
4. Project Engineers
   a. Project Management for Engineers Online Course (Short Course # ZI090)
      This online course focuses on how project management will improve your project outcomes on all fronts and allow you to manage your many other responsibilities at the same time. This course is taught by David Kazel, an experienced productivity improvement specialist in areas of strategic development, lean manufacturing, procurement, logistics, manufacturing and supply chain.
   b. Finance and Procurement for Engineers (Short Course # ZI84FP)
      This online course will focus on the business side of project management, including; Financial accounting and budgeting procedures, Applied Finance, Engineering Economic Analysis Techniques, Capital Budgeting and Resource Planning, Procurement and Contract Procedures, Contract Management and Financial Risk Analysis. This course is taught by Stephen V. Smith, Ph.D., currently Director of the Engineering Management Program for Drexel's College of Engineering.

5. General Knowledge
   a. Benchmarking Manufacturing Processes (Order # ZSME05 ISBN # 855488001212)
      DVD presentation containing two videos shows you how to structure a best-practices search and how to transform benchmarking data into an improvement action plan. Tips for forming, training, and managing a benchmarking team, plus expert advice to help avoid common benchmarking project pitfalls are explained. Produced by the Society of Manufacturing Engineers.
   b. Affordable Automation for Small and Medium Facilities
      (Order # ZSME03 ISBN # 855488001861)
      DVD presentation that is part of the award-winning Manufacturing Insights video series. You'll go inside Factory Five Racing, Supreme Corporation, and Peterson Manufacturing to see how these shops automated material-removal and assembly processes with either the help of a robotics integrator RPT or by acting on their own. Learn how decisions were made in automation justification, planning, implementation, training, and safety. Produced by the Society of Manufacturing Engineers.

6. Management
   a. The New Engineering Manager: Moving from Technical Professional to Manager (Short Course # PD475)
      This short course focuses on the movement from technical professional and/or engineer to supervisor or team leader. Supervisors and managers of the 21st century will have broader responsibilities, taking charge of more projects and more people. This course is taught by Gary Dichtenberg, the president of Professional Development Associates, a training and development consulting firm, dedicated to assisting organizations and individuals to achieve their highest level of performance excellence.
   b. Leading Individuals and Project Teams (Short Course # ZI84LI)
      This online course focuses on how to lead a project team to successfully deliver on time and on budget. This course is taught by David Kazel, an experienced productivity improvement specialist in areas of strategic development, lean manufacturing, procurement, logistics, manufacturing and supply chain.
How would you like to earn a cool million as a free lance writer?

Well – here’s your opportunity to practice while you’re waiting for that opportunity to come along! PE&M Division is looking for your thoughts, ideas, experiences or stories to share with your fellow Society members. While we can’t promise the cool million, we can promise that the “write” papers will end up in print. At this time, we are looking for papers sharing your stories on manufacturing processes, reliability issues, maintenance headaches, process engineering solutions, or some combination of these. We will contact you before going to print, of course, or with offers for involvement in ASME events. The PE&M Division is looking for articles related to our core focus of providing insight to plant engineering and/or maintenance activities. We look forward to your contributions.