

Energy Issues

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IEP Newsletter –

This issues of the IEP Newsletter introduces three (3) new features, First is a *technical article*. In each issue IEP will strive to bring you energy management articles from some of the best known and respected people in their respective fields. They will involve technical updates and current issues facing energy managers.

The first article is entitled *Five Trends for 2012*. It is a lighting technology update provided by Robert L. Henderson, LC, CLEP, Technical Lighting Consultant with Progress Energy.

The second new feature is *Tips from the Board*. Each month IEP Board members will provide several tips aimed at:

- Assuring the implementation of your Energy Plan will be successful and
- Providing proven principles to energy management that will reduce energy consumption and operating expenditures.

Keeping the topic of sharing energy management information in



mind, the third feature will be *Best Energy/Operating Practices*. These are operating practices from various energy consultants and managers that have been shown to be highly effective approach to operating equipment and, therefore, should be replicated in other facilities. They will cover a variety of commercial and industrial sectors topics.

IEP would also like your input. If you have an energy tip, project or unique approach to solving an energy problem that you like to share, let us know. It may become a Best Operating Practice.

Professional Energy Manager Certification

Over the years participants in the *Energy Management Diploma Program* at Virginia Tech and NC State University have periodically asked about additional credentials or certification in the field of Energy Management. Since its inception circa 1978 the Association of

Energy Engineers has done an excellent job of promoting better management of our energy resources and providing technical training through their various program offerings/certifications. Even so, within the past five years, with the increased emphasis on professional certifications,

“...there are PEMs across the USA as far west as Texas, Oklahoma and Iowa. There are multiple certifications in the US military, NASA, and in energy agencies in at least three (3) states.”

PEM Certification *(continued)*

the requests for a more comprehensive energy certification increased.

Since professional certifications are generally the purview of professional organizations and not universities, the *Institute of Energy Professionals (IEP)* was founded. After more than a year of development, in 2009 IEP and the *Professional Energy Manager (PEM)* certification became a reality. The PEM certification was developed on the belief that to be successful an Energy Manager must have a more comprehensive skill set. Not only must he or she know the technical fundamentals, but also they must have the strategic and human relations skills so important for a successful and sustainable energy management program.

PEM certification is currently available only to those who have completed the three-week *Energy Management Diploma Program* offered through North Carolina State University. The goal of IEP is to build upon this highly successful

program, now in its thirty-fourth (34) year, and expand energy training opportunities by providing the highest quality practical energy management training available.

To this end IEP is working with a major international corporation in the energy field to offer equivalent training and PEM certification in an on-line format. Work is still underway in the development of the on-line modules to correspond to the current program course offerings. The on-line certification is expected to be available during the first quarter of 2012.

In addition, IEP is working with other colleges/universities, governmental organizations, and private sector companies to promote energy training. To date there are PEMs across the USA as far west as Texas, Oklahoma and Iowa. There are multiple certifications in the US military, NASA, and in energy agencies in at least three (3) states.

The Board

As with any organization its ultimate success is dependent upon many factors. Among the most important is the direction provided by the Board of Directors. Therefore, in the formation of IEP Board members were carefully reviewed and selected based upon their knowledge and desire to continually promote energy efficiency.

Following is a listing of the current Board members. Most, if not all of the names will be familiar, since they are considered among the best in their respective fields.

William H. Mashburn, PE, PEM, CEM
Professor Emeritus Mechanical
Engineering VPI & SU

Carroll B. Hooper, PE, PEM, CEM
Steam Solutions, Inc.

Gregory S. Harrell, Ph.D., PE, PEM,
CEM – Energy Management Services

Walter E. Johnston, PE, PEM, CEM –
WEJ Energy Services, Inc.

Thomas D. Mull, PE, PEM, CEM –
Carolina Consulting Group, Inc.

William J. Turpish – PE, PEM, CEM,
CEA – W.J. Turpish & Associates



Recertification Process

December 31, 2011 will mark the date for recertification of many of the first to become *Professional Energy Managers*. In preparation for this the Board has developed criteria for recertification. The criteria were based upon a review of several professional organizations and their recertification process.

PEM recertification will be on a *three-year* basis at a cost of \$100.00. Renewal will require over a three year period that ten (10) points be accrued. Points are awarded on the following basis:

- ✦ Five (5) points will be awarded for continued involvement with and/or performing energy management related activities.
- ✦ Three (3) points are awarded for each paper published or presented.
- ✦ Three (3) points are awarded for each new presentation in a workshop or seminar format. (First time only)
- ✦ Two (2) points are awarded per CEU, equivalent college credit, or ten (10) contact hours.
- ✦ One (1) point is awarded for active participation in a professional society/ organization. (Maximum of 1.0 points)

If you have accrued professional development requirements for other organizations, those pertinent to the energy management criteria previously highlighted can be used for PEM renewal, even if used for another organizations.

Most of the initial PEM certifications were for a period of one (1) year. If you completed your certification within three (3) years of finishing the *Energy Management Diploma Program*, by virtue of your continued involvement in energy management and your classroom work, you have attained sufficient points for your initial renewal.

Approximately 45 days prior to your recertification date you should receive notification of your pending renewal. On the form simply indicate the number of points accrued and the date the training program was completed. Once completed, return the form with your renewal fee to the address indicated on the form. Receipts can be provided if needed for reimbursement.



Why We Hate the Oil Companies –

By John Hofmeister

A Book Review by William H. Mashburn, PE, PEM, CEM

Economists believe we are at the tipping point with our economy. Energy professionals believe we are also at the tipping point with energy. John Hofmeister is the former president of Shell Oil Company and founder of *Citizens for Affordable Energy*. In this book he presents an objective and sometimes frightening view of where we now stand with regard to energy. While pundits proffer false new promises of

green energy independence or flatly deny the existence of a problem, he offers an insider's view of what's behind the energy companies' posturing and how politicians have used energy misinformation and lack of information to get and stay elected.

He deals with every aspect of energy – how electric utilities operate, our dependence on fossil fuels and ways to

“He gives examples of the incompetency of the government to develop an energy policy based upon logic, rather than external influences.”

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IEP

Institute of Energy Professionals

PEM

Professional Energy Manager

Why We Hate the Oil Companies – (continued)

make them cleaner, the need for nuclear power, and the folly of believing many of the alternative sources can fully meet the needs of our growing demand for energy.



Courtesy of Chevron Texaco

Mr. Hofmeister discusses, in a very objective manner, some of the competitive techniques used by oil companies that may not be in the best interest of the country. He also discusses the many impediments to logical development of oil and natural gas resources.

He gives examples of the incompetency of the federal government to develop an energy policy based on logic, rather than external influences.

Mr. Hofmeister proposes a plan that requires informed citizens have a grassroots movement to save the

country from an impending energy disaster. His website is *Citizens for Affordable Energy* <http://www.energycitizens.org>. I highly recommend this organization.



Oil Platform Rig

This book is excellent for providing accurate, unbiased information for energy professionals, and can be obtained from Palgrave McMillan, (247 pages) for \$27.00, or at a discount from Amazon.com. For more information on this book check the website <http://www.whyhatetheoilcompanies.com/>

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