



SEMPPE

South East Michigan
Power Plant Engineers' Society

A Professional Organization for Engineers and Suppliers of the Powerhouse Industry

President

Alfred Preis

Retired

734-697-0092

apreis@aol.com

Vice President

Brian Irwin

Nalco

734-834-3933

birwin@nalco.com

Sec/Treasurer

Tim Turner

Oakwood Hospital

313-308-5568

turnert@oakwood.org

Sergeant-at-Arms

Mark Fine

R L Deppmann

248-762-1279

mfine@deppmann.com

April 2010

join us on the web at <http://www.semppes.com>

Volume XIII: Issue IV

APRIL MEETING

Hosted by

State of Michigan

Presented by

Mr. Robert Aben

State of Michigan Chief Boiler Inspector

Topic

Review of the boiler operator license registration.

The new boiler operator license testing to be implemented by the boiler division.

Where & When

Date: April 15, 2010

Time

5:30 – 6:30 Social Hour

6:30 Dinner

7:00 – 7:30 Presentation

Place: O'KELLY BANQUET HALL

23663 Park Street

Dearborn, MI 48124

Phone : 313-278-5855

okellybanquethall@att.net

Cost: Vendors: \$ 25.00 per person

Engineers: \$ FREE per person

PLEASE R.S.V.P. to Dennis Insley dinsley@advnet.net or call

(810) 650-2809 or fax (810)-367-2154 AS SOON AS POSSIBLE

Vendors take an Engineer to Dinner

SEMPPEES wants to help in this economy. We offer Dinners to vendors at \$25.00 or for \$20.00 more bring an engineer to the dinner. The \$20.00 will get the Engineer a year membership to SEMPPES plus the dinner. The meetings offer great speeches & good food. See you at the next meeting.

2010 Golf Outing

Keep warm during the winter months – Start thinking about the SEMPPES golf outing at the Lakes of Taylor Golf Course.

The 2010 Twentieth Annual Golf Outing

The Lakes of Taylor Golf Club

On Friday - August 13, 2010

Go to **SEMPPEES.com** web site for Registration Form

Payment can be made with Credit Card or Check

Must have Registration Form filled out with payment

Last year was sold out. Don't wait sign up now and reserve your spot!

Great Times & Great Weather are predicted!



April Quote

Don't argue with an idiot; people watching may not be able to tell the difference. Unknown!

President's Notes

Unfortunately, I was unable to attend the March meeting due to a last minute conflict, shjt happens, but I understand the presentation and the meeting went without a hitch. So I want to thank Air Centric, Dan Dwyer, Doug Griese and the rest of our officers for a job well done.

We have been approved by the IRS as a Nonprofit 501 (c) (6) organization not subject to Income taxes, thanks to our past President Eric Cameron.

We should have an interesting meeting this month so please remember it is important to RSVP to Dennis as soon as possible so we can provide an accurate count to Mark at the Hall. The 3rd Thursday is on the 15th, which is early in the month.

See you all there.

Chicken Soup for the Engineer's Soul

Consider unintended Consequences when making changes!

One of our duties in the Powerhouse at the Rouge was to provide compressed air to Blast Furnaces for the Iron Making Process. We had 2 – I.R. Turbo-Blowers that were designed to produce 100,000 cfm of Blast air at 30psig. The Turbines driving the compressors were rated at 11,000 H.P. each. We also had 2 - 70,000 cfm G. E. Units driven by 7,000 H. P. turbines. The air was compressed but not cooled since the Blast Furnaces wanted the air temperature as hot as possible.

As the technology in Iron Making changed the personnel from the Blast Furnaces would approach us to increase the discharge air pressure we were providing them. The pressure was increased first to 32psig, then to 33 psig and eventually to 34 psig, and the results were that the Blast Furnaces did produce more iron as a result of the changes. We were able to convince the Steel company management to allow us to upgrade the turbine controls because we had to run the turbines at higher speeds to provide the volume of air required. They took that as an opening to raise the discharge pressure again, when we balked, they did not want to believe that there was a limit to what 50 and 70 year old equipment could do, so they hired an Engineering Consultant to come and look at our equipment and bless another pressure increase. Here is were the unintended consequence came in; the Blast air was piped to the Furnaces in 60 inch piping, the designed discharge temperature was 270 Degrees F, but with the raised discharge pressure the air pressure would reach 350 Degrees F, I had noticed that the increased temperature had caused the

expansion joints in the air lines to its limits and had busted some of the grouting around the pipe anchors.

I took the Consultant around and showed him the expansion joints and pipe supports, he just shook his head and walked away, never to be heard from again.

As a side note, a couple of years ago I received a call from Severstal N.A., B-Furnace had a hole blown in the side and someone at a subsequent meeting had mentioned that the Blowers were operating 13% above design and the Operations Vice President did not want them to go above design until he was satisfied it could be done safely. So I pointed out to them that the equipment had been running above design for about 40 years. Presently the blowers are shut down and a new compressor was built that meets there needs better.

Al Preis

50/50 Winners

Sam Wong – Ford Motor Company

Brian Irwin – Nalco Company

Steve Britt - Chemtreat

Lets Welcome Our New Members

| | |
|-----------------------|-------------------------------------|
| Joe Lawson | Emerson Process Management |
| Stephen Gary | Henry Ford Community College |
| Jim Motschall | Great Lakes Mechanical |
| Bruce Roberts | Ford Motor Company |
| Ronald A. Ross | Pipe Systems, Inc. |
| Sam Wong | Ford Motor Company |

If your name was not noted as a new member please let us know and we will add to the next newsletter.

NOTES and COMMENTS

Click for link to 2010 Dues Form: http://www.semppes.com/2010_DuesWebForm.htm

- 1.) Supplier and Engineer Dues are \$**50.00** for suppliers and \$**20.00** for engineers for the year – **2010**
Membership certificates are now available. Forms at
http://www.semppes.com/2010_DuesWebForm.htm

Please pay at the monthly meeting or mail to our Secretary/Treasurer:
Please include your current address and email address.

SEMPPEs, C/O Tim Turner, P.O. Box 2770, Dearborn, MI 48128

When turning in your membership application please include two (2) business cards. Also please be sure to include your email address and web site on the application.

Attention both Engineering and Supplier members – Please check our website; <www.SEMPPES.com> to assure that your name and company is listed under the “members” heading. If not, please email our Webmaster, Dennis Insley, at dinsley@advnet.net and discuss your listing.

Please note the three headings to search by:
a.) Individual name b.) Subject and c.) Company.

All Engineering members are invited to complete and submit their membership information to be included in our club directory and database.

- 2.) If there are any mistakes on your email address/ mailing label please email corrections to dinsley@advnet.net . Also advise us of telephone number and email address changes to help us keep our files current.
- 3.) The membership roster for both engineers and suppliers is available on the website.
- 4.) SEMPPES Hats and Shirts are a great way to advertise our club to both vendors and suppliers. They make excellent gift items also. There are now hats and golf shirts available with the new SEMPPES logo. The hats are \$20.00 and the shirts are \$35.00. The club has new long sleeve denim shirts with the SEMPPES logo, which are now available.
- 5.) Vendors and Engineers are welcome to submit suggestions for future Presentations or Tours for the coming year. Presentations & Tours are a great way to introduce the club membership to new technologies, new products or ideas, and to help educate and update us with "what's new" in our industry. They are a truly valuable benefit of SEMPPES membership.

"Help wanted" and "Situations wanted" is another service available to club members. Notices can be published in our newsletter and on the SEMPPES's website.