



www.FortWayneEngineersClub.org

Engineers News

November 2012 - Vol. LXXV No. 3

November Tour I

CERT Program and Public Safety Academy

Thursday November 1st at 7:00 PM

7602 Patriot Crossing, Fort Wayne, IN 46816

The Community Emergency Response Team (CERT, www.citizencorps.gov/cert/about) is a training program for regular citizens to assist in the wake of a large emergency or disaster where traditional first response (fire, medical, etc.) would be overwhelmed by the magnitude of the emergency or disaster. The CERT program aims to train ordinary citizens how to best respond to a major disaster situation and how to help neighbors, friends, family and the community at large. The CERT program first, presents citizens the facts about what to expect following a major disaster in terms of immediate services. Second, gives the message about their responsibility for mitigation and preparedness. Third, trains them in needed lifesaving skills with emphasis on decision making skills, rescuer safety, and doing the greatest good for the greatest number. Fourth, organize teams so that they are an extension of first responder services offering immediate help to victims until professional services arrive.

The Public Safety Academy (www.publicsafetyacademy.org) is a regional training and educational space. Emphasis is placed on technology and on-line learning using a new fiber optics network.

FWEC members should check in at the front desk, they will then be directed to the appropriate room within the facility.

November Tour II

Trelleborg Sealing Solutions

Thursday, November 15th at 7:00 PM

2509 Bremer Road, New Haven, IN 46774

Trelleborg Sealing Solutions is a worldwide leader in design, manufacture, and supply of polymer seals and bearings to a wide variety of industries and has had a presence in Fort Wayne since the 1960s. Those with long memories may remember TSS under their former name of Busak+Shamban. On this tour we will visit the TSS Americas' R&D Center to hear a short introduction of the company and its products and applications along with a tour of their Material and Product Test laboratories. You can find out more at www.tss.trelleborg.com. Colin Macqueen, Director, Technology, and Jeff Baehl, Central Product Engineering Manager, will be our tour hosts.

Please bring safety glasses (if you have them) and note the open toe shoes are not permitted in the lab areas.

Directions: Take Washington Blvd. east past Coliseum Blvd. to Meyer Road. Turn South on Meyer Road to New Haven Ave. Turn East on New Haven Ave and take

your first right (south) onto Bremer Road. You will see two Trelleborg buildings; please park behind the first building and come to the main entrance on the north side of the footbridge.

FWEC 2012-2013 Board

President: John Magsam
Vice President: MieLecia Martin
Treasurer: Ryan Stark
Secretary: Elizabeth Garr

1st Year Board Members: Dan Delaney & David Momoh
2nd Year Board Members: Jim Delaney & Jack Phlipot
3rd Year Board Members: Deborah Pitzer & Robert Vargo
(Replacement for Ralph Snyder)

2012-2013 FWEC Dues & E-Week Academic Award Contributions

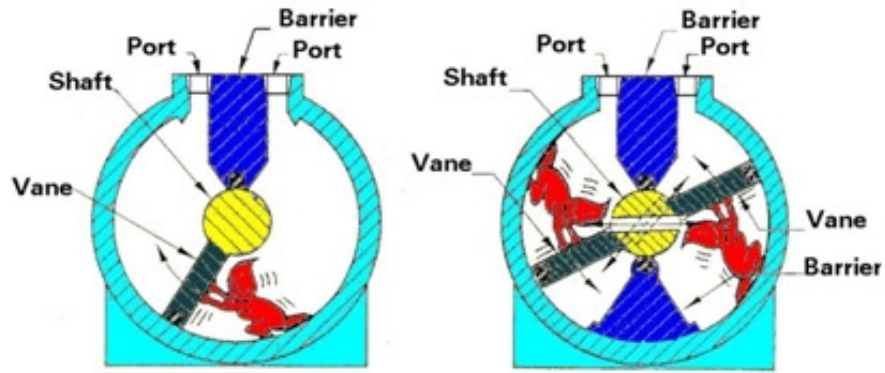
Dues for the 2012-2013 membership year are now payable. Members and associate members are \$10 while students and non-residents are \$5. Please pay using the enclosed membership card from your September newsletter or on our website (there is a service fee of \$1 added to pay online). Members not paid prior to January 1st will be considered delinquent.

This is also the time to consider adding a voluntary contribution to the FWEC Engineers' Week Academic Award fund. Academic Awards are given through the Engineers' Week committee and associated clubs (FWEC, ASME, SWE, SME, ASQ, etc.) to local engineering students during national Engineers' Week in February. Give back and be as generous as possible.

October Tour History

The FWEC toured Micromatic in Berne on October 17th; and while it was lightly attended it was still very informative and interesting. If automation is your thing, Micromatic is your company. One of their two main products is automated assembly equipment. During the shop tour we got a demonstration of two different piston assembly lines. One was a more manual line that required a fair amount of operator intervention, but still placed the rings on pistons correctly, then aligned the piston to the rod, checked that everything was correct and in tolerance and that just left the operator to place the piston/rod assembly in a box. The other assembly line did basically the same thing but was completely automatic. It would take a piston, turn it if necessary, attach the rod and wrist pin, check for any problems, mark it with ink indicating that it was good and then place it in a shipping cart on the other end. Micromatic supplies pretty much all of the major vehicle manufacturers with assembly lines of this sort and it's impressive to see it in action.

The second product they make are hydraulic rotary actuators of all different sizes. For those who don't know what that is, it basically allows any hydraulic system to have a rotary motion like a wrist or an elbow. A picture is worth 10,000 of my words, so see below. The double vane actuator provides more torque than the single vane actuator.



There are thousands of applications for this type of actuator with one of the more interesting being a rudder controller on large ships. Thanks again to Micromatic for opening up their facility and providing drinks and cookies for our club.

Engineers' News Past

Engineers' News Past will return next month

FWEC Board Meetings

The FWEC board meetings are open to any interested party within the FWEC membership. The next FWEC board meeting will be held on Tuesday November 6th at 7:00 PM on the Indiana Tech campus in the Zollner Engineering Center room Z-203

The FWEC Newsletter E-Mail Delivery

The FWEC newsletter is now available for e-mail delivery. This saves the club postage and newsletter fees as well as getting the newsletter to the membership sooner. Please add News@FortWayneEngineersClub.org to your address list ensuring proper delivery of the newsletter.

Future Tours

The FWEC is looking for ideas for future venues. Is your place of work somewhere that you'd like to show off? Are you interested in a specific company in the Fort Wayne area? Please submit all tour ideas to FortWayneEngineersClub@yahoo.com.

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