



www.FortWayneEngineersClub.org

Engineers News

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February Tour

Ivy Tech Aviation Center at Smith Field

Thursday, February 21st at 7:00 PM
405 West Cook Road, Fort Wayne, IN 46825

The February FWEC tour is of the Aviation Center at Smith Field (<http://ivytech.edu/northeast/locations/aviation.html>). The facility is a 2,100 ft² building with 5 classrooms, 2 computer labs, hangar and multiple lab areas. The two computer labs were essential as Ivy Tech's reference data is housed primarily electronically and this allows multiple classes to have access at one time. The labs consist of special instruction areas for several subjects. There is a lab for doing sheet metal work, composite work and the last is for turbine engine teardown. There are also two battery lab areas, one for nickel cadmium (NiCad) batteries and one for lead acid. In the main hangar they also have a designated lab area for non-destructive testing, and another for working on the reciprocating engines and propellers.

The main areas in the hangar are for the storage and work on the fleet of aircraft. This fleet consists of two Cessna 152's, one Beech U-21, a Beech Baron, a Bell 47 helicopter (think M.A.S.H.) and one poor little Cessna 150 dubbed "Stubby" (the reason why will become clear during the tour). Ivy Tech also has the fuselage of a piper Aztec but it is not a full aircraft; this shell is used in the sheet metal class for patch repair practice. The other equipment includes teardown engines, various types of propellers, hydraulic mock-ups and several other mock-ups for aircraft systems.

Ivy Tech's program prepares the student to obtain an airframe and power plant license from the Federal Aviation Administration. They are what is referred to as a Part 147 school and their guidelines regarding operations and curriculum are set forth by the FAA. While Ivy Tech prepares the student for this license they do not actually administer the testing for this certification, this is done by a Designated Maintenance Examiner working for the FAA. Ivy Tech has a DME associated with the program for the convenience of their students.

Northeast Indiana Engineers' Week – Banquet

The Northeast Indiana Engineers' Week banquet will be held at Indiana Tech's Andorfer Commons (http://www.indianatech.edu/SiteCollectionDocuments/campus_life/campus_map.pdf) on Saturday February 23rd. Doors open at 6:00 PM with dinner served at 6:45 PM. The cost to attend the banquet is \$25/person until February 15th and \$30/person after. All members of the FWEC are welcome and encouraged to attend. Please see the Northeast Indiana Engineers' Week website (<http://www.indiana-eweek.org/indiana-banquet.html>) for information on where to send your RSVP.

2012-2013 FWEC Dues

Dues not yet paid for the 2012-2013 membership year are now delinquent. Members and associate members are \$10 while students and non-residents are \$5. Treasurer Ryan Stark will be sending out notices to delinquent members in the coming month. 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).

January Tour History

The FWEC had a strong turnout of 37 people for a January 24th tour of Fort Wayne's Water Filtration Plant. Security precautions were evident at the beginning and end due to EPA requirements in the wake of the 9/11 attacks. In between, the club was treated to 2 hours of the most in-depth tour, literally and figuratively, that we are aware of. The tour started with new pumps that help distribute consistent water pressure from the Plant. The group then visited the gothic realm where river water enters the system and followed it through treatment stages to the final, newly installed, ultraviolet chambers for Giardia cysts. The finished water is award winning, among the best and most closely monitored in the nation. This is partly to remove soil and chemicals from the original water, also to avoid long-term acidic erosion of pipes and maintain a minimal protective lining of alkaline calcium deposits. The FWEC appreciated and enjoyed what may have been the last public tour allowed under stiffening EPA security rules. A huge thank you to FWEC Board member Robert Vargo and FWEC member Rod Vargo for setting up this tour.

Future Tours

The March FWEC tour is scheduled for Summit City Bicycles and Fitness (<http://summitcitybikes.com/>) on March 28th at 6:30. For all you wanna be Lance Armstrongs out there (well maybe not)... Get your bicycling questions answered before the biking season starts next month at Summit City Bicycles. Learn about state of the art cycling technology, the difference between road bikes, mountain bikes, cross bikes, comfort bikes and trainers as well as how to "fit" a bicycle.

Additional tentative futures tours are of the new Parkview Regional Medical Campus and Lingenfelter Performance Engineering.

Welcome New FWEC Member

Welcome to new student member Benjamin Ehram, BSME Purdue. Welcome to new members: Beth Ward BSEE Raytheon, Lucas Satter BSME formerly of Navistar, Bruce Stahl BSME retired, Hans Swift BSME Karl Schmidt, and Kim Ellis Aseet Parker.

Please encourage your co-workers to join the FWEC; at \$10/year it's one of the best deals in town!

2012-2013 FWEC 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 Philipot
3rd Year Board Members: Deborah Pitzer & Robert Vargo
(Replacement for Ralph Snyder)

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