



Engineers' News

April 2018

Vol. LXXX No. 8

www.FortWayneEngineersClub.org



Find us on 

April Tour



[Thunderbirds/ Formula Boats](#)
[2200 West Monroe Street Decatur, IN 46733](#)
Thursday, April 26th at 1:15 PM

FWEC Board Member David Gordon has arranged our April tour of [Thunderbirds/ Formula Boats](#).

An informal headcount is required for this tour, so if you are planning on going, please contact Ryan Stark at Info@FortWayneEngineersClub.org or call at 260-456-0809. Ryan will be on vacation until a few days before the tour, so if you don't get a reply, don't worry, he will get you on the list.

Attendees must wear closed toe shoes, and reasonable clothing (no shorts, tank

tops, etc). Safety glasses will be supplied, this is a ground level walking tour, however, there may be some minor stairs.

Formula is a brand of pleasure boats produced in the United States and sold around the world. Formula is owned and operated by Thunderbird Products. Formula is based in Decatur, Indiana and currently manufactures 22 models. These power pleasure boat models include bowriders from 24 to 35 feet, cruisers from 24 to 40 feet, Go-fast boats from 29 to 38 feet, and a 45-foot yacht.

May Tour



**T H R E E
R I V E R S
D I S T I L L I N G C O .**

[Three Rivers Distillery](#)

[224 E Wallace St, Fort Wayne, IN 46803](#)

Thursday, May 23rd at 5:30PM

Tour participants MUST be >=21

Three Rivers Distillery is Northeast Indiana's first craft distillery since Prohibition, proudly located in Fort Wayne. Their wheat and corn is grown within 100 miles of the downtown Fort Wayne distillery and each of their craft spirits has a Fort Wayne influenced name. FWEC tour participants will get a close glimpse into the production of small-batch spirits from grain to glass.

Free Tours of City Utilities Plants

Have you ever wondered where the water comes from that you use every day for drinking, cooking and bathing and where it goes after you've used it? Fort Wayne City Utilities invites you to explore how drinking water is produced and how sewage is treated during free tours at the Three Rivers Water Filtration Plant and Water Pollution Control (sewage treatment) Plant. You'll learn about the processes and the testing that goes on to ensure that your water is clean and safe when it comes out of the tap and that it is as clean as possible when it returns to the river after you've used it.

City Utilities will conduct free guided tours of the Water Pollution Control Plant and Three Rivers Water Filtration Plant over the next several weeks.

At the Water Pollution Control Plant located at 2601 Dwenger Avenue visitors will learn how the plant operates, visit the award-winning lab and view its high powered microscope and learn about the importance the plant plays in our daily lives. The tour will involve walking on several surfaces, including gravel, and attendees should not wear open-toe shoes or flip-flops.

Named the P. L. Brunner Water Pollution Control Plant, the Fort Wayne facility provides sewage treatment for more than 315,000 area residents in Fort Wayne, New Haven, Leo-Cedarville, Maysville, Grabill, Zanesville, Huntertown, Arcola and many homes and businesses in unincorporated areas of Allen County. Currently, the plant has the capacity to treat 100 million gallons of sewage per day. Last year, the plant treated nearly 17 billion gallons of sewage for the year. The plant has been serving the community since 1940.

The Three Rivers Water Filtration Plant located at 415 Baltes Avenue will offer a free guided tour from 10:00 AM-noon. The plant opened in 1933 and after several expansions are now able to produce 72 million gallons of water per day. The free tour gives visitors an opportunity to see the plant in operation, interact with staff members and enjoy the architecture of the Collegiate Gothic style building.

List of free tour dates:

Water Pollution Control Plant – 2601 Dwenger Avenue

Saturday, April 14; 10:00 AM-noon

Saturday, May 12; 10:00 AM-noon

Three Rivers Water Filtration Plant – 415 Baltes Avenue

Saturday, April 21; 10:00 AM-noon

Open House & Tours News

The annual NIRCC Open House is on April 18th, 4-6 pm in the Omniroom (basement level) of Citizens Square. The Northeast Indiana Regional Coordinating Council determines priorities and decides design requirements for our highways, roads, sidewalks, trails, and bridges for ongoing 0-30 year timeframes. This open house is usually poorly attended and is a social, so ideal for finding out what plans actually are and discussing viewpoints with decision-making engineers.

The US 30 & SR 101 J-turn/median U-turn open house is presented by INDOT on April 11, at 6 pm at Heritage High School.

Free airplane (perhaps also helicopter) rides for ages 8-17. This is the Young Eagles program of our local Experimental Aircraft Association (EAA, Chapter 2). The 2018 dates for rides out of Smith Field are (Saturdays) May 12, June 9, August 11, and September 8. The official time window is 9:00 am - 1:00 pm but earlier is better to minimize potential crowds, turbulence, and heat.

AirVenture in Oshkosh, Wisconsin, is July 23-29 this year. If you would like to attend, even for a day, it is advisable to contact our local Experimental Aircraft Association (Chapter 2). They have been heavily involved with the event since its inception.

In an effort to retain local retail availability of basic electronic parts (such as resistors, capacitors, antennas), the Radio Shack inside the southeast entrance of our Glenbrook Mall has been replaced by D.I.Y. It Electronics (www.diyitelectronics.com).

TekVenture relocated to 1550 Griffin Street (near the Tecumseh-Coombs Street bridge) due to high rents near the old GE complex. This is a club type of organization with doors normally open to the public, free, on Wednesdays through Sundays at 1-8 pm. The Griffin Street location allows expanded options including theater and displays. A hobby collection of 150 vintage vacuum cleaners will be on view April 14-29.

A Maker Lab is still available in the downtown Allen County Public Library.

FY18 Membership Year FWEC Board

President: [Bharat Rajghatta](#) (260) 615-1869

Vice President: [John Magsam](#) (260) 482-2843

Treasurer: [Ryan Stark](#) (260) 456-0809

Secretary: [Elizabeth Garr](#) (260) 486-0158

1st Year Board Members:

[Dave Gordon](#) (260) 693-2167

[Ryan Stark](#) (260) 456-0809

2nd Year Board Members:

[Rod Vargo](#) (260) 416-0986

[Craig Welch](#) (260) 241-5138

3rd Year Board Members:

[Marna Renteria](#) (260) 744-3407

[Ellsworth Smith](#) (260) 637-6070

Resident Agent: [Ryan Stark](#) (260) 456-0809

Membership & Contact Committee Chair: [Dave Schaller](#) (260) 486-7610

Northeast Indiana DiscoverE Committee Chair: [Rob Cisz](#) (260) 435-0409

Board positions are crucial to the planning of tours and events for the FWEC.

Please consult the [FWEC constitution](#) or contact us at

info@fortwayneengineersclub.org for information on specific duties on board positions.

Find the FWEC Easier!



The FWEC has invested in a "feather" sign to alert members where our tour entrance is. Look for the sign at future tours.

FWEC still looking for a Treasurer for the 2018-2019 Year

The Fort Wayne Engineers' Club is still looking for a Treasurer for the 2018-2019 club year.

Summaries of duties for the Fort Wayne Engineers' Club Treasurer

- 1: Balance the checking/savings account.
- 2: Prepare a monthly treasurer's report for the officers meeting (1st Tuesday of every month from September to May)
- 3: Prepare a budget draft for discussion at the October board meeting.
- 4: Deposit checks, keep track of petty cash and record/deposit money from PayPal as it comes in.
- 5: Print out new member applications and issue new membership certificates.
- 6: Keep the names, addresses, phone numbers and e-mails up to date for all club members.
- 7: Send out invoices for newsletter adds.
- 8: Send out past dues notices to delinquent club members, first via e-mail, then hard copies.
- 9: Remove delinquent club members from the roster.

The time it takes to perform these duties varies quite a bit from month to month. On average, I estimate I spend about 2 hours per month.

Sincerely,

[Ryan Stark](#)

Fort Wayne Engineers' Club Treasurer

828 W Oakdale Drive

Fort Wayne, IN 46807

260-456-0809

info@fortwayneengineersclub.org.



Fort Wayne Engineers' Club board meetings are open to all FWEC members. The next FWEC board meeting will be Tuesday, May 1st at 7:00 PM. Board meetings are held on the [Indiana Tech campus in the Academic Center](#) in room ACC-201.

FWEC Membership



The FWEC exists through funding of its membership. Please forward your copy of the Engineers' News to prospective members and encourage their attendance at tours. Remember, the FWEC is the best deal in town, annual membership is \$10. We offer free monthly tours September through May. Please be sure to recommend FWEC membership to your colleagues and friends.

Advertise in the Engineers' News

The FWEC provides advertising space within the Engineers' News. Advertisements are \$10 per issue and limited to ½ page of content. For submissions please contact info@fortwayneengineersclub.org.

March Tour



[The Summit](#)

[1025 W. Rudisill Blvd. Fort Wayne, IN 46807](#)

Thursday, March 22nd at 6:00 PM

FWEC Board Member Marna Renteria has arranged our March tour of [The Summit](#).

Eleven attendees gathered, under the bright sun but in the bitter cold, at The Summit, on the south side of the building of our prime attention, one of the buildings on the south side of Rudisill Boulevard on part of the property once known as the campus of Taylor University. This particular building, at 1095 W Rudisill Blvd, has recently had solar panels installed on the south side of the roof, and the installation and operation of those panels was the primary target of our March 22 tour.

“The Summit is a shared campus of socially-minded organizations working together to make our community thrive.” This is their mission statement. The Summit houses non-profit organizations who lease office space there, but anyone can pay to use meeting rooms and conference rooms there. The Summit has 12 employees, including 2.5 maintenance people. The campus was purchased by Ambassador Enterprises from Taylor University in 2011, leaving behind many items, including about 47,000 books. Ambassador Enterprises also happens to own an engineering company in town, Wagner-Meinert. More information about The Summit is available at thesummitfw.com, and about Ambassador Enterprises at ambassador-enterprises.com.

Spencer Mize, Director of Strategic Initiatives, directed the tour. Spencer learned of the Fort Wayne Engineers Club through The Summit’s receptionist Jacquelyn Scott, who suggested the solar panels as a FWEC tour to her daughter, Marna Renteria, FWEC board member.

The installation of the panels took 1 week, with an installed price of \$184,000 outlay. They also migrated from halogen to LED bulbs and upgraded the air conditioner efficiency and insulation. Other efforts will include open-loop HVAC. The energy migrates from watt generation to the grid to the building in a 105 kW system. Each panel measures 6"x12" each, and there are 18 sets vertically, and 12 rows horizontally. The fixture for the panels is 1.5" thick, and the generating panels themselves are very thin. The composition of the roof itself is steel under the rubber. Each panel, 960mm x 992mm x 40 mm (length/width/height), generates 320 watts and are photovoltaic. They receive AEP credits of \$1 per 1 generated. The financial payback is estimated to be between 8 to 10 years, including the 30% financial tax credit, but excluding depreciation-based tax savings. The asset itself should generate for 26 years.

The entire system is rated at 100 kW and is converted from DC to AC by 6 inverters, with no battery. It is rated up to category 4 hurricane winds (150 mph). It has a cell phone connection (GSM) so that the panels can be monitor using an app. An emergency shut-off switch is needed for fires, b/c the panels would still produce electricity. There has been no "critter problem" since December. Bird poop is a concern, but using treated water to clean it off may leave a residue, so let the rain clean it is safer. The shadow from the WCBL (90.3 FM) radio tower does have an effect, but neither that tower nor the 1115 W Rudisill building that houses WCBL, is owned by The Summit. ASHRAE will do an analysis in late April. This is the first test for solar paneling. The unoccupied 1007 W Rudisill building, or Building E, which was Lehman Hall, has a flat roof and is the next candidate for solar paneling. The main two buildings at 1025 and 1027 W Rudisill are massive consumers, and they are looking to replace the rubber membrane roofs sometime in the next 5 years before eventually putting solar panels on them, conceivably in another 15-17 years.

In March, The Summit generated 11.12 MWh of solar-generated electricity. Each building is on the same portion of the grid (except the Retreat Center), but none of them connect to each other. They do however connect to the grid. The 1025 / 1027 buildings hold the space for more the main receptionist desk, the conference rooms and meeting rooms for rent to the public, and more tenants such as Parkview Sports Medicine, Crossroads Bible College, and Cookspring Shared Kitchen. The 1027 building has a two-story open space at the entrance and on the ceiling of the 2nd floor, there are more than 1,000 light bulbs. Other buildings on the campus include the one closest to the street, 1005 W Rudisill building, of which the entire first and second stories are occupied by Big Brothers Big Sisters, and other non-profits on the third floor include such tenants as The Literacy Alliance and Audiences Unlimited.

We appreciate The Summit and its owners, Ambassador Enterprises for all they do in the community, and Spencer for taking the time with us for the tour.

Northeast Indiana Chapter Project Management Institute



April 25, 2018 Dinner Meeting - Fuel Agility with Transparent Expectations by Nabila Safdar

Topic: Fuel Agility with Transparent Expectations by Nabila Safdar



Abstract:

Do you know how your work is aligned to tactical and strategic goals? Success is rooted in a productive and cohesive team-centered culture. When culture and execution are misaligned, failure is almost certain. Everyone on and around the team must understand their role in defining, delivering, and growing value. It sounds easy, but the discipline can be tough, which leads to disappointments and unwelcome surprises.

Nabila Safdar focuses on curating transparent expectations by the following six core practices. First, foster candor and respect. This leads to unity. Second, have fresh conversations when new information is learned. This eliminates assumptions. Third, seek to understand the purpose and intent behind every objective. This enables us to confirm value. Fourth, rethink and replan when we learn something new. As agilists, we respond to change. Fifth, welcome feedback and give it often. This encourages nonstop engagement. Sixth, ask early and often. We should challenge assumptions and awareness continually. These practices are an investment, and when you practice them together, agility can become a team attribute.

Bio:

Nabila Safdar served biotech, software, retail, nonprofit, and academic teams over the past thirteen years. Driven by the passion for continuous learning, she is always exploring new ways to better serve teams. Her primary focus is on strengthening relationships to optimize value. Currently, she is filling the ScrumMaster role at Do it Best Corp. Nabila is a Professional ScrumMaster, Professional Scrum Product Owner, and Professional Scrum Developer.

Date: Wednesday, April 25, 2018

RSVP Deadline: Sunday, April 22, 2018

Location: [Don Hall's GuestHouse](#), 1313 W Washington Center Rd, Fort Wayne, IN 46825

5:30 PM – Networking/Social

6:00 PM – Dinner

6:45 PM – Announcements

7:00 PM – Presentation

8:00 PM - Adjourn

- NEIC chapter members: dinner and speaker - \$20
- In Jobs-Transition or Student Membership - \$10
- Non-members: Dinner and speaker - \$30
- Speaker Only: \$0 (Members), \$10 (Non-Members)
- Pay now with credit card only; pay at door option is no longer available

[Register Here](#)

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