

Engineers' News

March 2017

Vol. LXXIV No. 6

[www.FortWayneEngineersClub.org](http://www.FortWayneEngineersClub.org)



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## March Tour



[Peridot Inc](#)

[14508 Bruick Drive, Hoagland, IN 46745](#)

Thursday March 30th at 7:00 PM

If 3D printing is going to take over the world, the transformation is already in full swing in Hoagland! Our March tour will be of [Peridot Inc](#) at 14508 Bruick Drive in downtown Hoagland starting at 7 PM on Thursday March 30<sup>th</sup>. These engineers and craftsmen can not only create models in several different 3D printing technologies, they can help you turn them into castings, molds and so much more. Watching a part print may be fascinating, but seeing what Peridot can create for actual working parts is nothing short of amazing. They are looking forward to showing off their recently expanded facilities. If your company is looking for prototyping support and expertise, don't miss this tour.

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## April Tour



[Apollo Design](#) and [Avid Labs](#)

[4130 Fourier Dr, Fort Wayne, IN 46818](#)

Thursday April 27th at 7:00 PM

Fort Wayne is home to an exciting pair of companies that are leaders in lighting development. You have probably seen custom logo or major brand image projected onto an interior or exterior wall at a sporting event and that "gobo" may well have been created by Apollo Design. Their sister company in the same building, Avid Labs, not only designs theatrical lighting systems but is taking their lighting knowledge into new industries such as transportation. Join us at 4130 Fourier Drive, Fort Wayne, IN 46818 at 7 PM on Thursday April 27th to see the technical capabilities that make sporting events and fine arts come to life.

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## Northeast Indiana DiscoverE

### Engineers Week Banquet Citizen Engineer Presentation



The Northeast Indiana DiscoverE Engineers Week banquet was held on Saturday February 25th, 2017. Jon Rowe P.E. (above left) was presented with the Citizen Engineer award by FWEC Treasurer Ryan Stark (above right).

The Northeast Indiana DiscoverE Engineers Week Committee is proud to accept the nomination of Jon Rowe and to declare him the 2017 Citizen Engineer. Jon Rowe is the nominee from the Association of Facilities Engineering Chapter 127. His qualifications and background are as follows:

- Jon received his BS in Electrical Engineering Technology from Purdue University in 1991. After working at Early Elevator Corporation, he started working at MSKTD & Associates, a local architectural and engineering company, in the Fall of 1991 as an Electrical Engineer. Jon obtained his Indiana Professional Engineering license in 1995 and is now registered in seven other states. He became a partner at MSKTD in 2000. During his time at MSKTD, Jon has designed the electrical systems on several prominent projects, including the Allen County Coliseum expansion, the Grand Wayne Center, Allen County Main Library, Franklin Electric and most recently the Ash Brokerage project.
- Jon has memberships in several engineering societies including Chapter president of AFE, Illuminating Engineering Society, Indiana Society of Hospital Engineers, the Indiana Society of Professional Engineers and the Fort Wayne Engineers Club.
- Jon has been a volunteer on the Northeast Indiana DiscoverE committee since 2000

and has primarily been responsible for securing donations for student academic awards. He has also been an engineering mentor assisting students as they design and build cities for the Future City competition.

- Jon has been a member of the Fort Wayne Elks since 2004 and has been on the board since 2010. He has also been a member and actively involved with Columbia City Rotary since 2010.
- Jon enjoys playing golf, camping, working on projects at home and taking trips with his wife Cathy. Jon and Cathy have been married 35 years and have three daughters: Elizabeth, Holly and Stephanie. They also enjoy spending time with their six grandchildren.

It is our distinct honor to recognize Jon D. Rowe as the Northeast Indiana 2017 Citizen Engineer.

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## Northeast Indiana DiscoverE Engineers Week Featured Speaker



The DiscoverE banquet was blessed to have Kelly Bajic speak prior to the presentation of academic awards. Kelly is the Program Manager at City of Fort Wayne Water Resources and heavily involved with the new tunnel program. The week prior to the banquet, our city received 5 bids to create this several mile long tunnel that will dramatically help clean up our rivers. She spoke to the aspiring young engineers about the challenges of different aspects of her job as three different prongs of outreach. The first is internal within the city to coordinate with groups such as the streets and parks departments as well as the redevelopment committee. The second is the external public groups such as our group. She speaks and works with the media, neighborhood associations, public forums and provides website information. The third prong is the core technical part of her career working with contractors (both local and national), conducting open houses and dealing

with specific trade journals. Kelly did an excellent job of conveying how wide ranging engineering jobs become and helped the group understand how we need to improve from the D+ grade our infrastructures currently receive. We wish her and the team a lot of success in completing this project by 2025.

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## Northeast Indiana DiscoverE Academic Awards



Northeast Indiana DiscoverE in conjunction with the below donors were able to award \$1,000 Academic Awards to local engineering students.

### **2017 Academic Award Recipients, Schools, and Donors:**

- Hunter Bertsch, IPFW, AFE
  - Kyle Murphy, IPFW, ASQ
  - Samuel Schroeder, IPFW, BAE Systems
  - Chat Gamba, IPFW, BAE Systems
  - Cooper Hill, IPFW, BAE Systems
  - Ian Kissell, Trine of Grace College, FWEC
  - Patricia Jimenez, IPFW, John Stump Memorial
  - Philip Gordon, Purdue, SDI
  - David Rodriguez, IPFW, Superier Aluminum
  - Megan Manes, Trine, SWE/FWEC
  - Jason Brown, Indiana Tech, Weitzman
-





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## FY17 Membership Year FWEC Board

### President

- [Dave Schaller](#) (260) 486-7610

### Vice President

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

### Treasurer & Resident Agent

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

### Secretary

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

### 1st Year Board Members

- [Rod Vargo](#) (260) 416-0986
- [Craig Welch](#) (260) 241-5138

### 2nd Year Board Members

- [Marna Renteria](#) (260) 744-3407
- [Ellsworth Smith](#) (260) 637-6070

### 3rd Year Board Members

- [John Magsam](#) (260) 482-2843
- [Jack Phlipot](#) (260) 438-0258

### Northeast Indiana DiscoverE Committee Chair

- [Devin Snowberger](#) (260) 450-1098

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](mailto:info@fortwayneengineersclub.org) for information on specific duties on board positions.

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## New FWEC Members



Welcome Full Member Istiaque Maruf Ahmad., MSEE



*Fluid Power, Safety and Automation Specialists*

Jake Dinius Sales Engineer (260) 797-9819 Cell  
[jdinius@sidenereng.com](mailto:jdinius@sidenereng.com) (260) 423-2595 Office

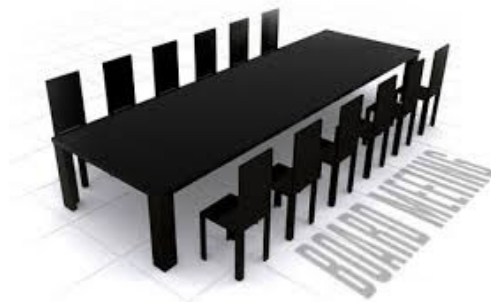


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## FWEC Board Meetings





Fort Wayne Engineers' Club board meetings are open to all FWEC members. The next FWEC board meeting will be Tuesday April 11th at 7:00 PM. Board meetings are held on the [Indiana Tech campus in the Academic Center](#) in room ACC-201.

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## **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.

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## **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](mailto:info@fortwayneengineersclub.org).

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## **FWEC LinkedIn Group**



FWEC's [LinkedIn site](#) is gaining critical mass. We have exceeded 200 members, with most being engineers, but also a few HR leaders and recruiters. There are now some jobs posted there, and with your help more engineering related jobs can be posted there. Please let your HR team know it is ready to use. Engineers tend to know other engineers that are seeking new challenges so this could become a great tool for our area. And to celebrate National Engineer's Week, please invite all of our engineering team to connect with us on LinkedIn as well. We do NOT charge membership fees just to be part of our

LinkedIn group, but welcome you to join it and always know what FWEC is doing.

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## February Tour History



[Jensen Cabinet Inc](#)

The FWEC tour of Jensen Cabinet was led by two of the four owners, Brian Robertson and Dan Rohloff. The commercial cabinet company was created by Karl Jensen in 1949 as a way of employing the German immigrant wood working population in Fort Wayne, his father Hans Jensen being one of them. Hans Jensen was brought over from Germany to steam bend the curved doorways on the McMillen Mansion. His craftsmanship can be seen in the woodwork all through the house. They started fabricating airline counters in 1967 and are now the second oldest surviving vendor to United Airlines behind Boeing aircraft. Their work is on display at all 5 terminals at O'Hare and 6 of the 7 at JFK, as well as hundreds of other airport locations throughout the US and abroad. Jensen is the exclusive supplier to United and preferred supplier to American and Delta, so you have probably leaned up against their work at some point in your travels. The Jensen brand stands for durability with some cabinets of theirs being replaced after two decades of service.

Our tour started in the single story garage where the large 2000 watt laser cutter was creating stainless steel parts. Although there are newer laser cutters, this 2008 unit from Cincinnati can cut steel, wood, laminate and tubes so its diversity of operations makes it a valuable asset. One of the most commonly used materials is #4 polished stainless from Ryerson or Central Steel.

Jensen is working to diversity their customer base and our group was allowed to see the work on underwater treadmills for H2O for Fitness and MRI machine doors for Medico in Noblesville. Their goal is to have 20% of their products be outside of the airline industry within a year. If you know of projects for hospitals, restaurants or other businesses, please send them to Jensen. Sometimes their airline product lines create other opportunities such as Vidtronics printer cabinets for other businesses.



We were treated to some of the challenges of dealing with the airline businesses. Although airlines would like to downsize their cabinetry, the gate personnel like to have a substantial barrier between themselves and the flying public. The airlines would also like to have complete uniformity of cabinets while the agents prefer to have ergonomic adjustability to fit their unique body size while standing on their feet all day. We were shown some cabinets that Jensen competes against and how the design staff has created superior adjustability into the Jensen product line. It was enlightening to see how Jensen balances the desires of industrial designers and airline IT personnel with technology and materials engineering to create highly durable works of art from granite, MDF (Medium Density Fiberboard) and stainless steel.

Like many other firms Jensen is working to go paperless through Autodesk Inventor CAD software and other tools. Part of this electronic transition are the SCM Accord 20 FX CNC routers to create three dimensional cabinet parts directly from CAD files. There is also a pair of Thermwood CNC routers. In some products color coated galvalume is used to create a much more durable finish than powder coat. Jensen must be very aware of how and where their products will be used in order to create the superior quality level needed for that situation. For instance when shipping products to Hawaii, all surfaces must be sealed to prevent termite damage.

While you can see their cabinets in movies such as The Terminal with Tom Hanks or Die Hard 2 with Bruce Willis, the real celebrities are here in Fort Wayne. Jensen's staff has 10 office personnel but no sales personnel, as their products sell themselves. Their plant employs 37 of our neighbors and 10 of those have served for over 20 years at Jensen.

One of their newest products may help you avoid extra charges on your next flight as they create luggage weighing systems to allow you to shift items in your baggage BEFORE you get to the ticket counter. The FWEC extends it thanks to Jensen Cabinet for the tour as well as making our travels more pleasant.



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## Fort Wayne Astronomical Society



Fort Wayne Astronomical Society, Inc.

P.O. BOX 11093 • FORT WAYNE, IN 46855 • USA 1959

FortWayneAstronomicalSociety.com

The [Fort Wayne Astronomical Society](#) will have their next general meeting Tuesday March 21st, 7:30 PM at [Aboite Township Community Room, 11321 Aboite Center Rd. Fort Wayne, IN 46814](#).

### Star Hopping to a Dozen Targets, Why Bother?

by Dick Evans

The sky is full of interesting things to look at however, it's easy to forget to go after some of them and even forget why you might want too. If we aren't using a go-to telescope, even if we try, sometimes they can be quite hard to find. Dicks Program is intended to help correct those problems.

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## Northeast Indiana Chapter Project Management Institute



The Northeast Indiana Chapter of the Project Management Institute will have its next meeting on Wednesday March 29th.

### **Project Delivery with Kanban**

As organizations consider more Agile approaches, they often make the assumption that Scrum is synonymous with Agile. When they find that that certain roles and practices of Scrum may not be a fit for all circumstances, frustration ensues. A popular alternative framework and method for putting Agile and lean thinking into practice is Kanban.

Kanban can often be a better fit in circumstances that are more fluid, require continuous responsiveness, and/or specialized individual skill sets. It can also be an alternative to Scrum overall for product development and evolutionary transformation. In this month's session we will provide an overview of Kanban, a comparison to Scrum, and investigate when and where Kanban may be a good option based on some simple analysis.

#### **Bio:**

Aaron Kopel is the founder and CEO of Project Brilliant, Indiana's top Agile consulting firm, and is the only Scrum Alliance Certified Enterprise Coach (CEC) in Indiana. He has directly, or through his trainers and coaches, trained more than 10,000 people and helped establish more than 1,000 Agile teams. Aaron led the world's largest company-wide Agile transformation and SAFe implementation at Capital One, and now advises companies across the midwest on their Agile journeys. He is also a founding board member and current Chairman of AgileIndy.

Register now and meet with us at Don Hall's Guest House. Networking begins at 5:30 PM, dinner will be served at 6:00 PM, chapter announcements at 6:45 PM and the presentation begins at 7:00 PM.

- NEIC chapter members: dinner and speaker-\$20, speaker only-free
- PMI Hardship Provision or PMI Student Membership-\$10
- Non-members: Dinner and speaker-\$30, Speaker only-\$10
- [Register Now](#); Pay now with credit card only; pay at door option is no longer available



## Engineers' News Past

The FWEC has a significant history; Treasurer Ryan Stark and his wife were able to find past Engineers News documents dating back to 1938! Here is an excerpt of the past newsletter (a scanned copy of the entire newsletter is available through the FWEC website):

[March 1964](#)

### WHAT'S IN THE FUTURE?

At the recent Community Betterment Council Meeting Messrs Harry B. Amstutz, President, Board of County Commissioners, Ivan H. McKathnie, City Controller, and J. Robert Arnold, City Attorney presented their views on the activities and plans for the future.

Mr. Amstutz enumerated the duties of the county commissioners:

1. Caring for county property
2. Account auditing
3. Soliciting bids and authorizing contracts
4. Bond issues
5. Leasing county land
6. Supervising construction and maintenance of roads and bridges
7. Preparation and approval of budgets
8. Personel and payroll
9. Miscellaneous

Mr. McKathnie indicated that the new city administration has spent considerable time recognizing the police force and the City Utilities. Some other projects under study include traffic control construction and repair of streets, financing a city-county building, dis-annexation of Industrial Park and many others.

Mr. Arnold assured the group that the administration was dedicated to the task of keeping the city free from vice and crime.

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