



**Engineers' News**

**October 2022**

**Vol. 85 No. 2**

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



## October Tour #1

### Indiana's First Skyscraper - The Lincoln Tower

**When:** Thursday, October 13 @ 4:00 PM

**Note:** This is the correct date. September's newsletter was incorrect

**Where:** The Lincoln Tower

116 E Berry St, Fort Wayne, IN 46802

**Website:** <https://archfw.org/heritagetrail/centraldowntown/the-lincoln-tower/>

**Info:** Join us for a behind the scenes tour of one of Fort Wayne's best known landmarks and Indiana's first skyscraper. Starting in the beautiful lobby, this tour will work its way up, include climbing 4 flights of stairs from the 19th floor to the Observation Deck. This jaunt will be worth it for the view, including the city's fall foliage.



## October Tour #2



**When:** Thursday, October 27 @ 7:00 PM

**Where:** Metal Technologies

[1537 Auburn Dr, Auburn, IN 46706](https://www.google.com/maps/place/1537+Auburn+Dr,+Auburn,+IN+46706)

**Website:** <http://www.metal-technologies.com/>

**Info:** Metal Technologies is a premier metal casting company that uses modern technology and a highly productive workforce to produce the best quality product. In business since 1997, they produce high quality gray iron, ductile iron, austempered ductile, and value-added machining for a variety of industries.

**Note:** Park in the front parking lot on north side of the building and enter the main lobby under the blue awning.

**No signup required.**

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## September Meeting Summary

RC Helicopter demo and discussion



### Saturday, September 24

Fort Wayne Flying Circuits Flying Field

1702 S. Webster Road, New Haven, IN 46774

The weather was a bit breezy and cool but it did not dampen the gyrations of the remote-control helicopters twisting and shouting their way through the air at Fort Wayne Flying Circuits field. The club members were given a visual and auditory description of the history of model helicopters by JC Zankl, Gary Williams, and Sean Reinhart. The earliest model on display did not have pitch control and was hovered with throttle only. The latest was powered by a turbine spinning at 220,000 rpm while the rotor rotation is limited to 2100 rpm. The discussion centered on flight control as gyros and transmitter improvements over the years allowed better control and flight characteristics.

For more, click [here](#) to read the full summary

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## Upcoming Events

### 18th Annual Opportunity Banquet

Tickets available for purchase by the general public for the 18th Annual Opportunity Banquet to take place at Purdue Fort Wayne on Friday, October 28, 2022. The keynote speaker Seth Kovnat, who leads the development and execution of payload accommodations for current and future Falcon 9 missions, will present a talk titled "Becoming a World Class Development Engineer." The cost is \$35 and includes participation in the entire evening (career fair, networking dinner, keynote speaker, and door prizes). However, holders of these tickets will not be recognized as corporate sponsors, cannot participate as a corporate representative in the career fair, and their company names will not be printed on their name badges nor in the evening's program. Nevertheless, it makes a fun and entertaining evening – a great date night! Information on how to purchase these tickets is included in the attached.

The **career fair** (4:30 – 6:30 p.m.) is in the Walb Classic Ballroom; the remainder of the evening (6:30 – 9:30 p.m.) is in the International Ballroom. See this [link](#) for more info.

Hope to see you there!

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## Items of Note

FWEC member Rod Vargo is Chair of the 27 year-old and all-volunteer [Utility Advisory Group](#), which formally advises Fort Wayne City Utilities and often City Council. Your comments are welcome at [rodvargo@comcast.net](mailto:rodvargo@comcast.net)

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## Volunteer Positions within the Club

**Membership and Contact Chair: Open**  
**Northeast Indiana DiscoverE Chair: Open**

Let us know if you're interested!

**Volunteer**

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## General Club Info

Fort Wayne Engineers Club dues are \$0. Donations are welcome but strictly voluntary. In recent years, club funds have helped support Discover-E, the Regional Science and Engineering Fair, annual bridge building contests in schools, academic awards, networking events, mentoring, our website, and facilitating free tours.

Please see [FortWayneEngineersClub.org](https://www.fortwayneengineersclub.org), [LinkedIn](#), or [Facebook](#) for updates on current Club activities, other news, and past newsletters.

Those participating in activities or hosting tours through FWEC do so strictly at their own risk, including disease exposures. Participation in club events is voluntary, free, nonprofit, and solely for the benefit of participants and the community at large. Anyone with an interest may participate unless restrictions are specified for specific events, such as minimum age or minimum safety attire.

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## Interested in hosting a tour?

Contact us today!

**Host a Tour**

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## FWEC Roster for FY2022-2023

President: Nate Berndt

Vice President: Nathaniel Wisel

Secretary: Marna Renteria

Treasurer: John Magsam

First-year Board Members: Ryan Stark, Ed Woodward

Second-year Board Member: Mike Magsam, Rod Vargo

Third-year Board Member: Dave Gordon, Bert Spellman

Editor of Engineer News: Melissa Kurten

**Membership and Contact Chair: Open**

**Northeast Indiana DiscoverE Chair: Open**

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## **Job posting and resumes listed**

The club accepts both job openings from around the area, as well as resumes from those seeking employment. Please submit these to the following email address:

[Info@FortWayneEngineersClub.org](mailto:Info@FortWayneEngineersClub.org)

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## **Advertise in the Engineers' News**

The FWEC provides advertising space within the Engineers' News. Advertisements are only \$10 per issue and limited to ½ page of content.

### **Advertise Your Business**

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## **September Meeting Summary Continued**

Much of today's RC flight control hardware had its start and development in helicopters. The advent of silicon gyro stabilized flight hardware greatly improved the handling of RC helicopters and migrated to RC airplanes. The gyro replaced the fly bars, mechanical dampers (smaller, black rotors in the following photo), used in the earlier designs. These devices mitigate the effects of wind buffeting and dampen the higher order affects to free the pilot to concentrate on macro control. The advances allow modern RC helicopters to preform wild, high-g maneuvers that can boggle the imagination.

Safety is designed and built into the craft. The rotors, typically carbon fiber, contain "fly away" hardware to restrain the rotor from leaving the craft should an accident occur. If the pilot loses control or orientation of the helicopter, a flipped switch will right and hover the craft allowing the pilot to reorient their mind and proceed under control.

The club was presented with two demonstration flights by JC and Gary. Gary flew the turbined powered craft, a Gaui with an Xicoy turbine, and JC flew an electric Soxos Strike 7.1. An example of the turbine powered flight can be seen at <https://www.youtube.com/watch?v=ygCkpmRHJxo> and the electric at <https://www.youtube.com/watch?v=r6XMPleLQq4>.

Many thanks to the Fort Wayne Flying Circuits club for hosting and facilitating the tour and to Gary and JC for the discussion and demonstrations.







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