



Engineers' News

September 2021

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www.FortWayneEngineersClub.org



Find us on 

September Tour



When: Thursday, September 16th at 6:30 PM

Website: <https://aptmfg.com/>

Info: APT Manufacturing Solutions has been providing high-tech solutions to manufacturing problems for over 25 years. Founded initially in a 2500 square foot facility as machining and machine building, APT is now manufacturing in a 75,000 square foot facility with state-of-the art equipment, technology, and people. They specialize in manufacturing solutions in **Automation & Robotics** as well as **Industrial Education Solutions, Machine Building, Fabrication, and Precision Machining.**

Address: 801 Industrial Drive, Hicksville, OH 43526

Directions: Take State Road 37 East out of Fort Wayne to Hicksville Ohio. Turn Left on Main St in Hicksville, then turn right on Muese Argonne St. The plant will be on your right.

May Presentation Summary

by Rod Vargo



Date: May 27th, 2021

ChromaSource proved spectacularly more complex and technical than imagined. They receive dried samples of paint swatches (typically on paper) from at least two-dozen clients and are expected to utterly replicate each sample regardless of lighting conditions that the final user will experience. ChromaSource does not know the ingredients of a client's paint. They also work with swatches on simulated wood. This cannot be done by printing methods. It must be done by constituting a similar paint from scratch and subsequent close attention to drying conditions, relative humidity, and other factors. Various finishes from dead flat to extreme gloss may be provided as requested by a client. All require attention, consistency, and extreme quality control throughout the production steps.

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

New job posting 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

July 2021: [APT Manufacturing Solutions](#) recently posted a new job opening for a Mechanical Engineer. See this [link](#) for more information. Or look on the Club's LinkedIn site.

Welcome new members to the Club

Stephen J Garden - Product Test Engineer with Trelleborg

Volunteer positions within the Club

This month's spotlight is on the position of Vice President

The club is currently in need of a Vice President. This basically consists of attending club board meetings and helping set up and coordinate tours. It's estimated that you will spend one to two hours per month on this and after one year, you are automatically moved to the club president position. If you do well as president, we'll nominate you to be on the head side of the first physical bitcoin. If you would be interested in helping the club, please contact Ryan Stark at Info@FortWayneEngineersClub.org

In Memoriam

The club was recently notified of the passing away of the following honorary members

Bernie Havens - 2012 Citizen Engineer - See the [link](#) for his obituary
and

Richard E. Zauner - 93, passed away July 15, 2021 at his home in Fort Wayne. He was a retired chemical engineer, working at General Electric, and a long-time Engineers' Club member. He leaves two surviving sons, David and Jon Zauner.

They will be missed

Local Opportunities

Experimental Aircraft Association Chapter 2

The Experimental Aircraft Association's Chapter 2 is very active. Check the [EAA-2 website](#) for current information!

Upcoming events:

Saturday, Sept. 11 - EAA 2 Young Eagles Rally - Aug Hangar 2 at Smith Field - 9:00 -1 pm

Saturday, Sept. 18 - EAA 2 Young Eagles Rally Kendallville Airport C62 - Wings and Wheels Event - 9:00 AM

Saturday, Oct. 9 - Ch. 2 Chili Lunch! 11 am - 2 pm, Smith Field Hangar 2. Free Will Donation. Come out to see many aircraft and custom / antique cars

TekVenture - Recovery efforts after the fire.

Much of TekVenture's core 15,000 square feet and contents have been scrubbed and painted top to bottom (15 foot ceilings). Visitors are welcome through the southeast-side door. The core facilities and active members include clay & pottery, welding for either art or practical purposes, extensive woodworking equipment and space, log and driftwood work (including industrial plank-making saw; log recovery trailer), small and large machining, vehicle (or boat/RV-trailer) work, hot or cold metalworking, electronics, printing, and (in progress) acres of riverside meditation space. Potential bench or floor space can be extended if needed for projects. Relatively large kiln capacity is in use and pottery activity has been very significant all winter, either working alone or socially. Some active members are involved with farmers markets and other regular activities around the Fort Wayne region.

Membership and use of facilities is remarkably low cost, routinely \$30/month. (Materials are extra, roughly at cost.) TekVenture is a nonprofit 501(c)3. Cash donations are tax-deductible and were critical in surviving fire, pandemic, and winter. PARTICIPATION OR SUPPORT ARE STILL NEEDED, with recovery and a formal open house in sight. See Facebook or www.tekventure.org for updates.

Instruction upon request is a reason that TekVenture exists, for any suitable age or situation. Everyday activity depends on where individual interests are. Part of Tek's intent is to provide guidance and facilities if possible as ideas or projects arise. Industrial strength sewing machines, a new modern \$2,000 laser cutting or embossing machine, and 3-D printing can be made available, but are not yet in demand again after the fire.

The fire was in an adjoining building, not associated with TekVenture, which is completely gone. Visitors can still learn about the ravages of smoke damage, but also the process of renewal and opportunity that can grow from it.

General 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, LinkedIn, or Facebook for updates on current Club activities, other news, and/or prior newsletters.

Those participating in activities through FWEC and our hosts does 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.

Interested in hosting a tour?

Contact us at Info@FortWayneEngineersClub.org

FWEC Board Meetings

The FWEC board meets eight times a year to plan and organize tours for our members. These meetings are open for anyone to attend. We are always looking for new members to join our team! If you are interested in being a board member please attend our next board meeting or contact us at info@fortwayneengineersclub.org.

Next Meeting

Date: Tuesday October 5th, 2021

Time: 7:00 pm

Location: Blackstone Laboratories 502 E Pettit Ave, Fort Wayne, IN 46806

May Presentation Summary Continued

ChromaSource has a lab and multiple people, including management, with years of experience in components behind color matching. We were completely unaware of metamerism, a ChromaSource specialty. Please take time to view Wikipedia regarding "Metamerism (color)".

ChromaSource's color-on-paper reproductions are usually cut into sections and glued onto brochures or catalog pages. The brochures or pages are usually card stock paper with the client's information already on it using conventional printing methods. This requires extreme attention to alignment of printing, paper cutting, paper, color samples, glue, drying time, collating, and other details.

Two shifts of workers work across some 200,000 square feet of immaculate building (other than some paint speckling here and there, which we found artful). The color-on-paper reproductions are produced or cut down to size, typically ranging between circa a half-inch to desk blotter. These can be attached to preprinted card stock as small individual color samples. They may be attached to preprinted brochures which display

dozens of samples in precisely correct order. Individual color samples of various sizes can be assembled onto individual pages of card stock, to form sets of various sizes and thicknesses, or bound in larger formats as architects' working sets. All of these depend on accurate collation at various points in the process.

It appeared that the finished products are produced in quantities ranging from hundreds to at least tens of thousands. These must be efficiently boxed and shipped as needed. Most ship to within the Western Hemisphere, but that is limited only by demand and economics.

The business is based on competitive bidding, which in itself clearly takes time, experience, and conceptual flexibility. As with many of our local businesses and tours, ChromaSource started small and slowly expanded as conditions and demand allowed, tweaked over many decades to remain competitive. The lobby had wall-mounted photo's of the "good old days" in a downtown Fort Wayne industrial wartime building with wide open windows for air exchange. Their current building is remarkably similar to the new BAE Systems building (jet engine controllers), both essentially the exact opposite of their previous structures. The new buildings are fully enclosed with extensive capture or incineration of vapor, dust, temperature, humidity, static electricity, and more - yet also take care to provide ample windows and facilities for workers. Both mix new as well as updated old machinery and techniques. Environmental and worker safety considerations are substantial as usual and openly discussed.

Our hosts clearly enjoyed what they did and the workforce seemed committed and upbeat. Waste appeared to be remarkably minimal. Environmental costs and knowledge were tackled over time, so never became insurmountable.

We were astonished at what is involved behind those paint color samples provided for free at most consumer stores. Our sincere and deep thanks to the many folks at ChromaSource who welcomed our interest and presence.

FWEC roster for FY2021-2022

President: Nate Berndt

Vice President: Open

Secretary: Marna Renteria

Treasurer: Ryan Stark

Treasurer-Trainee: John Magsam

First-year Board Members: Bert Spellman, Mike Magsam

Second-year Board Member: Dave Gordon, Open

Third-year Board Member: Craig Welch, John Renie

Editor of Engineer News: Open - interim: Ryan Stark

Membership and Contact Chair: Dave Schaller

Northeast Indiana DiscoverE Chair: Open

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.

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