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CSP investing \$8M+ in operations

New Stretcher Leveler technology aids CSP's processing capabilities



Coil Steel Processing's facility located in Toledo

Coil Steel Processing (CSP), a Toledo-based steel service center that processes steel coils by cutting a coil into specific sheet sizes, is investing over \$8 million in equipment, installation, and building improvements at its facility located at 1604 Prosperity Road. The company currently has 22 employees and is expecting to add five to seven more this year.

According to Kevin Friedman, president, CSP, the company is investing in new Stretcher Leveler technology, which will provide the company with state-of-the-art processing capabilities to produce perfectly flat sheets of steel while operating more efficiently (...continued on page 4)

Ohio Sea Grant set for \$2.65M project

Ohio Sea Grant – a program through the Ohio State University (OSU) has worked for over 30 years to protect the environment of Lake Erie and the Great Lakes through a combination of research, education, and outreach efforts, as well as partnerships with academia, governmental agencies, and the private sector – is set to begin its \$2.65 million project funded through Ohio Senate Bill 299 to increase the State's research capacity to study algal blooms and to assess progress toward nutrient reductions.

According to Christopher Winslow, PhD., director of the Ohio Sea Grant program, Stone Laboratory – Ohio Sea Grant's education and outreach (...continued on page 14)



Ohio Sea Grant's Stone Laboratory located at Put-In-Bay

NovaVision placing \$2M+ in expansion



Interior of NovaVision's facility in Bowling Green

NovaVision Inc., a Bowling Green-based company that specializes in hologram labels, tamper evident stickers, security tape, and mechanical security seals commonly used to combat counterfeiting and/or tampering, is investing over \$2 million to expand its facility by 12,000 square feet to make room for new equipment.

According to Mike Messmer, president and general manager, NovaVision, the new equipment will add production capacity to make its tamper evident tape and labels due to increased demand for the company's products. This is the company's third expansion at its facility.

"We are adding more production equipment, which will expand our capacity to produce tamper evident tape and labels. We are also expanding our metalizing capability, (...continued on page 2)

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NovaVision

...Continued from page 1

which is used for specialty products,” said Messmer.

The project began in the third quarter of 2020 and is expected to be complete by the end of the first quarter of 2021. The new equipment will be installed and operational sometime in the first half of 2021, according to Messmer. Romanko Building Company, based in Pemberville, is the general contractor for the project and was responsible for the original building construction, as well as the other expansions at the facility.

According to Messmer, the facility is all high bay at about 33 feet clearance so that it is flexible for production or warehouse space. Since adhesives for the tape and labels can be adversely affected by high temperatures or humidity, the entire facility is climate controlled as well.

“We primarily use printing presses to make hologram labels, tamper evident tape, tamper evident labels, and security bags. In addition to the printing presses, we have operations for electroforming, warehousing, and our testing laboratory,” Messmer explained. Our primary products are used for anti-counterfeiting and



NovaVision's facility in Bowling Green

anti-tampering applications. We also are a distributor for security seals for logistic applications, which includes bolt seals, cable seals, and barrier seals. We also distribute labels and ribbons for thermal printing applications.”

NovaVision's major security printing products include:

- Tamper evident security hologram labels
- Promotional hologram stickers
- Tamper evident security labels
- Vehicle registration decals and plates
- Security tape
- Holographic overlays for ID cards
- Holographic lamination pouches
- Parking permits, window stickers, and hang tags

NovaVision's major mechanical security seal product offerings include a range of both stock and customized products. According to the company, its service for custom seals is among the fastest in the industry, and these seals are typically used to seal truck trailers,

railcars, shipping containers, totes, and pallets, including :

- Bolt seals
- Cable seals
- Adjustable plastic seals
- Padlock seals
- Plastic and metal band seals
- Topp clip pallet seals
- Barrier seals

NovaVision markets some brands of security tapes and security labels through CGM-NV, a wholly-owned business unit, which was acquired in 2011. The company also distributes thermal transfer ribbons and labels through Thermal Images, another a wholly-owned division of the company.

Founded in 1994, NovaVision conducts business globally and has over 5,000 active customers each year.

“Our major customer groups include governments – federal, State, County, municipal, and international – large international

companies, retailers, and collectible companies. In addition, we provide products to brand owners, ski resorts, pharmaceutical / drug companies, hospitals, banks, trucking / logistic companies, and we have a strong internet presence, which helps us reach smaller customers too, including over 1,000 small businesses,” said Messmer.

NovaVision is ISO 9001:2015 certified. The company received the facility's C-TPAT certification in 2012, its ISO 14298 certification in 2017, and its ISO 14001 certification in November 2020.

The company currently has 65 full-time employees and expects to create at least 10 new jobs in the next five years.

“Since 2010, our sales revenue has almost tripled and employment doubled. This level of growth is only possible by having an outstanding team of people who are focused on providing exceptional product performance, product quality, and excellent customer service,” said Messmer. “Our customers value the commitments we make to continuously improve our operations and products. We are certified to ISO 9001, which supports our product quality and service goals. We are certified to ISO 14298, which pertains to the security of our facility and business processes. Lastly, we are also certified to ISO 14001, which pertains to our commitment for environmental issues.”

Dana Incorporated names new senior leadership

Chris Clark has been named senior vice president of global operations of Dana Incorporated.

In this role, Clark is responsible for leading global manufacturing operations across Dana's more than 150 major facilities with an

emphasis on safety, customer satisfaction, and overall operational efficiency. According to the company, he will continue to build upon Dana's 116-year history of manufacturing excellence, lean manufacturing system deployment and accountability, new product launch execution, and cross-company operational synergies among Dana's drivetrain, sealing, thermal, industrial, and electrodynamic component and system operations.

“Chris Clark brings strong international experience in managing complex manufacturing operations for Tier I mobility suppliers,” said James Kamsickas, chairman and CEO, Dana Incorporated. “He will play an important role in furthering our commitment to safety and quality, as we continue to leverage our capabilities across the organization to deliver on our commitments to customers and shareholders.”

Clark joins Dana from Yanfeng Automotive Interiors, where he most recently served as vice president of operations, including

leading manufacturing operations and quality. Previous to that position, he served as vice president of operations for Faurecia and also held key operational leadership roles with Lear Corporation.

Clark earned a Bachelor's degree in business administration from Columbus State University and an MBA from Michigan State University.

Dana provides power conveyance and energy management solutions that are engineered to improve the efficiency, performance, and sustainability of light vehicles, commercial vehicles, and off-highway equipment. Enabling the propulsion of conventional, hybrid, and electric-powered vehicles, Dana equips its customers with critical drive and motion systems; electrodynamic technologies; and thermal, sealing, and digital solutions, noted the company.

Based in Maumee, the company reported sales of \$8.6 billion in 2019 with 36,000 associates in 34 countries across six continents.

The Mosser Group names new president of Telamon Construction

Steve Durbin has been named president of Telamon Construction Inc., as recently announced by Brian R. Geffe, P.E., president / CEO of The Mosser Group.

Durbin most recently held the position of project manager with Mosser Construction, a subsidiary of The Mosser Group. He earned his degree in mechanical engineering from Terra Technical College and brings over 22 years of industry experience including negotiated private work and

design/build.

Specializing in commercial, industrial, medical, and institutional construction, Telamon Construction is located in Sandusky and according to the company, has been providing clients quality construction on a merit shop basis since 1989.

The Mosser Group is the parent company of Telamon Construction, Inc. and other affiliated companies, providing construction services to northwest Ohio.

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MACHINING & TOOLING

Where is manufacturing tech headed in 2021?

This article originally appeared in Manufacturing Engineering magazine and is reprinted here with the permission of the publisher.

Manufacturing technology is constantly changing, both in terms of the types of products produced and the ways those products are made. As we ease into 2021, here are some interesting trends I've heard about.

Remote work for manufacturing operations: While many office workers are working effectively from home, factories are not designed for workers to do their jobs remotely. But that may be changing. Writing in Industry Week, Tony Del Sesto of Chicago-based MxD describes a workplace where robots can be operated remotely so that production will continue uninterrupted, even if no one can enter the plant. "The technologies needed, in fact, already exist," he writes, including robotics, remote control systems, high-speed remote communications, and terminal access.

Additive manufacturing of medical implants is growing: Medical implant developers

need manufacturing technology that delivers speed, individualization, and the ability to produce complex designs. 3D printing with bio-compatible materials like titanium is well suit-



ed for this task, according to Sandvik Additive Manufacturing. In the past, surgeons used metal mesh to replace areas of the body such as skull bones, but the mesh tended to be weak and lacked precision. 3D printing eliminates these flaws by using medical imaging to create a customized implant, shaped to the patient's

anatomical data, creating an exact match to replace the lost or damaged area of the skull. Using computer tomography, optimized designs can be produced via AM.

Cobots go big: More manufacturers are working alongside cobots. These cobots have typically been small, but big cobots are making their debut. The FPT Industrial Driveline plant in Turin, Italy, which produces transmissions and axles for heavy equipment, is using an AURA robot (Advanced Use Robotic Arm)

designed and built by Comau and used in the HuManS (Human-centered Manufacturing System) consortium. Almost three meters high and weighing three metric tons, AURA works alongside humans without barriers, and can be manually guided by the operator. AURA retrieves a part from the supply cart and hands it to the operator. It is said to be the only collaborative robot on the market capable of lifting up to 170 kg.

Better batteries for electric cars: Ford is leading an EU battery research project to improve regenerative braking in hybrid cars. The new research – an EU collaboration managed by the Consortium for Battery Innovation – focuses on dynamic charge acceptance (DCA) and high-temperature durability in batteries for automobiles. DCA is the ability of a battery to capture instantaneous energy, such as through regenerative braking. The project will help battery manufacturers improve fuel economy and CO2 emissions in hybrid vehicles.

These are just a few of the many innovative technology projects in manufacturing.

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CSP

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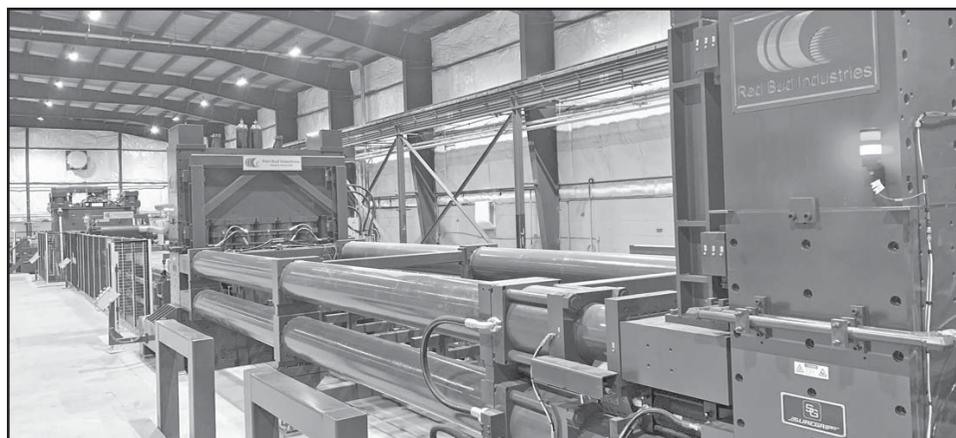
“Since launching the company in 2014, CSP has utilized older machines that rely on roller leveling technology, meaning the steel goes through a set of rolls that apply pressure to get the steel to lay flat before shearing or cutting it to length. With the new Stretcher Leveler technology, CSP now has state-of-the-art processing capabilities to produce perfectly flat sheets of steel while operating more efficiently and much faster than the older machines,” explained Friedman.

“The proliferation of laser tables in the steel processing market that burn parts out of sheets has created the need for memory free sheets. While sheets may look flat that have been roller leveled, the steel might spring back as parts get cut out of the sheets as they begin to lose their integrity. Memory free sheets require a Stretcher Leveler and has become the standard requirement for certain premium product applications and end markets,” he continued.

According to Friedman, the company has been watching this Stretcher Leveler technology develop over the years.

“It was not until a few years ago when the stretch cycle times improved and the early machine designs were being upgraded that we felt like it was time to make a move,” said Friedman. “We spent the majority of 2018 interviewing manufacturers, installation companies, and visiting other service centers with stretchers. In early 2019,

we selected Red Bud Industries to build the line and Lee Industrial Contracting to install the line. We finalized all the contracts in August of 2019. Our intended goal was to have the line fully commissioned in the summer of 2020. Ultimately, the timing and schedule was pushed back a few months due



Coil Steel Processing now has advanced cut-to-length steel processing capabilities

to COVID-19. Fortunately, we were able to work closely with our vendors to minimize COVID-19 related delays.”

Friedman explained that the new Stretcher Leveler provides CSP with the most advanced cut-to-length steel processing capabilities in the market.

“CSP is the only processor in the north-west Ohio and southern Michigan markets with the ability to Stretcher Level and process heavy gage coils in these markets. CSP’s focus on quality, service, and flexibility are important factors in why customers select us,” said Friedman.

The new line is in CSP’s main building,

which is just over 100,000 square feet. The company has also secured an additional 100,000 square feet of space to handle its storage overflow and inventory management business.

“As we began to make plans for the new equipment, we knew some key building up-

grades were required. The building needed a new roof, proper insulation, LED lighting, new mechanical equipment, and upgraded electrical transformer,” said Friedman

CSP worked closely with Ebee Management Group, a Toledo-based consulting company specializing in energy efficient upgrades in existing or new construction. Ebee was instrumental in helping CSP secure financing via the PACE Energy Program and manage the construction upgrade process.

“The project is being financed with a combination of SBA loans and PACE Energy Program funding and equity from the ownership,” said Friedman.

As a toll processor, CSP processes material for outside customers and does not buy or sell steel coils directly.

“CSP specializes in processing coils that are considered heavier gage or thicker. These coils of steel can be up to half an inch thick and used for various industrial applications. In addition, CSP manages a large stock of inventory for our customers from our locations in Toledo. CSP’s customers also rely on our quality, service, and flexibility,” said Friedman.

CSP’s customers are located all over the country. The location of the steel mills CSP’s customers buy from is critical because freight costs play a significant role in managing the logistics for steel coils, according to Friedman. Toledo is well positioned geographically between the steel mills producing coils and the end users that require CSP’s processing capabilities. CSP generally processes steel from mills in Ohio, Michigan, Indiana, Illinois, Kentucky, and Canada. Most of the end users are within 250 miles of Toledo and deliveries are made by truck.

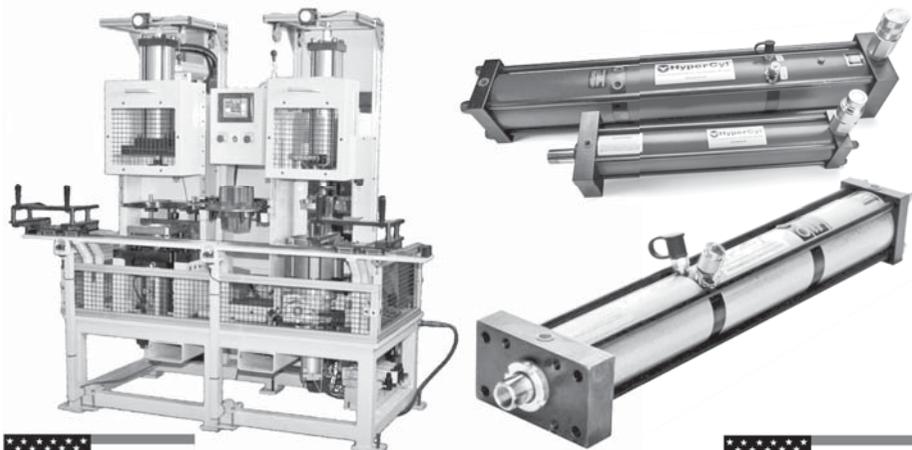
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“CSP focuses on how best to service our customers and we manage the business with this mindset. Many processors lack the flexibility and customer service focus that CSP prides itself on,” said Friedman.



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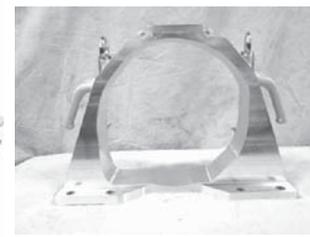
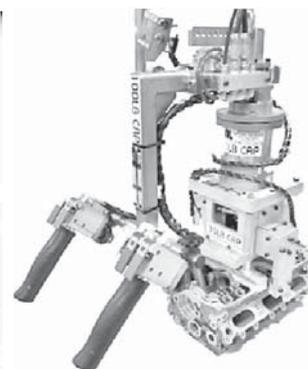
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2020 non-auto robotic orders higher than auto orders

For the first time, yearly orders of robots from non-automotive sectors surpassed automotive robot orders, as sales of robotic units in North America increased 3.5% in 2020 from 2019. This growth was driven by a strong Q4 that was the second-best quarter ever for North American robotic sales with a 63.6% increase over Q4 2019.

Industry statistics – released by the Robotic Industries Association (RIA), part of the Association for Advancing Automation (A3) – show that North American companies ordered 31,044 robotic units, valued at \$1.572 billion in 2020. In Q4, companies ordered 9,972 units valued at \$479 million.

“The surge in robot orders that we’re seeing, despite the pandemic, demonstrates the growing interest in robotic and automation solutions,” said Jeff Burnstein, A3 president. “It’s promising to see the growth of robotics in new applications and reaching a wider group of users than ever before.”

Year-over-year orders in life sciences increased by 69%, food and consumer goods grew by 56%, and plastics and rubber saw a 51% increase. Automotive orders increased 39% in 2020.

“In 2020, we saw two trends in particular that propelled growth in non-automotive orders for robotics technology,” said John Bubnikovich, chief regional officer – North America, KUKA Robotics. “First, the automation competence level in general industry has grown, and that matured into greater demand for the technology. Second, consumer

behavior shifted significantly and the expectations created by this shift were tough to satisfy without automation.”

At the same time, Bubnikovich said, supply chain disruptions and instability in the workforce made industries accelerate automation strategies.



The same trends are being noticed by other major robot manufacturers, noted officials.

“With the changes in people’s personal buying behavior caused by COVID-19, robots have been utilized in record numbers to allow for the fulfillment of orders in the e-commerce space while allowing for correct social distancing practices,” said Dean Elkins, segment leader – handling, Yaskawa

Motoman. “In addition, robots largely aided in the production of personal protection and testing equipment and the medical devices needed to keep our society healthy and safe.”

“We have seen a substantial increase in activity in non-automotive sectors, as cus-

tomers focus on making their production lines more flexible and better able to efficiently achieve high mix, lower volume production in response to constantly evolving customer demands,” said Mark Joppru, vice president – consumer segment and service robotics, US ABB Robotics and Machine Automation. “In food applications, for example, where robots were traditionally used to automate simpler processes like

case loading, they are increasingly being commissioned for higher value processes, like directly preparing food, resulting in improvements to food safety and hygiene. While these trends have existed for several years, COVID-19 has changed perceptions and priorities for customers, accelerating the adoption of robotic automation.”

In August of 2020, A3 reported on the strain to supply chains and economic uncertainty due to COVID-19. Alex Shikany, A3 vice president, membership and business intelligence, noted that despite a drop in orders, industry leaders showed optimism about the remainder of 2020, and accurately predicted the strong finish to 2020.

“The pandemic has created a sense of urgency for manufacturing companies to invest in automation like never before,” said Mike Cicco, president and CEO of FANUC America. “Traditionally, companies have implemented automation to reduce cost, increase output, and improve quality. However, the pandemic has added an additional factor that is driving manufacturers to re-examine their supply chain to increase flexibility, minimize disruptions, and move it closer to their customers. With this mindset, there are more opportunities for scaling robotic applications across multiple facilities, especially for larger companies. The untapped potential for automation is a promising sign for our industry – the opportunities for automation today are truly limitless.”

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Smart building, equipment, and IoT trends for 2021

COVID-19's impact is difficult to ignore looking forward; it is set to cast a long shadow, bridging from 2020 into 2021 and

beyond. Industries across the board have been affected, and have had to make some changes to how they operate. In building

controls, the trend is towards remote work and management, digital processes, and information technology. Here predictions from some of our team members at J2 Innovations for smart buildings, smart equipment, and IoT.

Remote work and management

How we use and interact with buildings is changing. Many people are becoming familiar with working remotely and many more are realizing that they need to expand remote working to more people within the workplace and across industries. In order to keep up with the needs of occupants and building owners, we need the capability to manage buildings remotely at a macro level and through applications at a micro or personal level. Earlier this year, we explored the importance of occupant comfort and how smart buildings should be adapting in a COVID-19 environment.

"The COVID crisis is accelerating building portfolio operators' realization that they need to be able to remotely manage their

buildings more effectively, so the need for easier and more secure connectivity technologies will increase, while the climate crisis is accelerating the transition to greener technologies, both in terms of renewable energy generation and also a greater focus on reducing the carbon emissions from existing buildings by optimizing the way they are controlled. Companies that offer optimization services will therefore prosper. In many buildings, the need to increase air change rates to reduce the risk of COVID transmission has temporarily prioritized this over energy efficiency, but once the immediate crisis has passed the HVAC industry will respond by developing more advanced ways of maintaining good indoor air quality, while simultaneously minimizing energy use. Air ionization and mechanical heat recovery solutions are therefore likely to grow in popularity," said Chris Irwin, vice president of sales EMEA, J2 Innovations.

As we continue to focus on building
(...continued on page 10)

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Overland Industrial Park solar array nearing completion

The Overland Industrial Park has reached a milestone in the transformation of the original Jeep manufacturing site in Toledo into a solar array producing renewable energy designed to support neighborhood reinvestment and creating resources to meet community needs with revenue from Dana's Toledo Driveline facility, which is using the generated electricity for its operations.

area facilities; inverters provided by Yaskawa Solectria Solar; and design and construction services provided by GEM Energy, JDRM Engineering, Mannik & Smith Group, Inc., and TTL Associates. The installation of solar panels on the South Site was completed in August 2020.

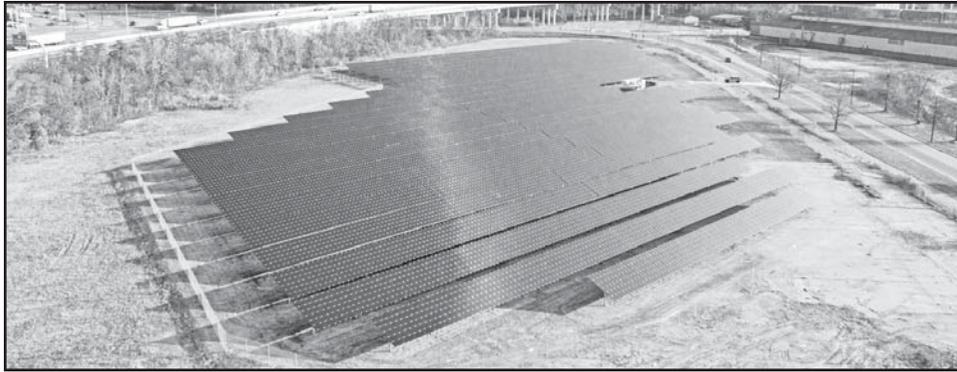
"Solar power is working for communities and businesses across the United States.

Edison, the interconnecting utility, to illustrate and test the safe operation of the system in coordination with the utility grid and the Dana Toledo Driveline facility, ensuring that Dana was able to receive the energy to run its operations.

First Solar's responsibly-produced solar module technology has the lowest carbon and water footprints of any solar technology available today, and will generate enough power to reduce the amount of carbon dioxide by more than 1,600 tons, or the equivalent of removing more than 300 cars from the roadways each year, noted officials. The

company, which originated in the Toledo area, operates two local factories in Perrysburg and Lake Township.

"We're thrilled that this important project is powered by technology that was developed in the Toledo area," said Michael Koralewski, chief manufacturing operations officer, First Solar. "The project serves as an important reminder not just of the role that responsible solar can play in energizing our communities, but of the fact that Ohio is the home of American solar. From R&D to manufacturing — including development, construction, (...continued on page 8)



The 2.5 megawatt solar array in Overland Industrial Park

Project background

A 2.5 megawatt (MW) solar array was developed across two sites in Toledo's Overland Industrial Park — the North Site and South Site. Preparation of the land for installation of racking to hold the solar panels on the North Site started in September 2019, racking was installed, and solar panels were installed starting in June 2020. By July 2020, the North Site was complete with solar modules provided by First Solar, Inc.'s

Renewable energy projects are in the forefront of cutting-edge solutions that meet multiple economic and environmental concerns," said Jason Slattery, director of solar, GEM Energy. "Projects like Overland, which involve numerous partners with significant ties to the community, demonstrate how success can be achieved through broad-based collaboration."

On December 13, 2020, witness testing was performed in coordination with Toledo

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Overland

...Continued from page 7

operations, and the nation's premier solar recycling facility — Ohio has it all.”

Moving forward

The solar array will generate clean, renewable energy in Toledo's Overland Industrial Park. Dana's Toledo Driveline facility, located in the park, will purchase the electricity revenue from the sale will be invested in the Solar Toledo Neighborhood Foundation of the Greater Toledo Community Foundation (GTCF), with grants to be awarded to local non-profit organizations focusing on development of the neighborhoods surrounding

Overland Industrial Park.

“Dana has a rich history in Toledo, and our employees and retirees are a core part of the fabric of this community,” said Doug Liedberg, senior vice president, general counsel, and chief compliance and sustainability officer for Dana Incorporated. “This investment allows us to leverage sustainable energy — an important part of our long-term goal of reducing our greenhouse gas emissions globally by more than 50% by 2035 — while simultaneously supporting the continued development of a vibrant community around our facility.”

Overland Industrial Park, which is home to Dana's Toledo Driveline facility, Detroit Manufacturing Systems, All-Phase Electric, and now the new solar array, is nearly

complete, as only two parcels remain for development.

“We're very proud to be a partner in such an impactful initiative,” said Thomas J. Winston, president and CEO of the Toledo-Lucas County Port Authority (TLCPA). “Instead of the floodplain portion of the site being used primarily for greenspace, we've worked with our local partners to innovatively utilize the land and creatively develop a resource for in-

According to officials, the solar array is expected to generate more than \$300,000 annually, with funds available for distribution to local non-profit organizations working to better the neighborhoods surrounding the Overland Industrial Park by the end of 2021. Grant amounts will be determined by the amount of energy Dana uses on an annual basis less any operating expenses for the solar array, such as insurance and ongoing maintenance. Once



Previous progress on the solar array in Overland Industrial Park

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vestment into the surrounding community.”

“Toledo has previously been called ‘The Silicon Valley of Solar Energy’ and Ohio was identified years ago as a leader in the nation for alternative energy development,” Toledo Mayor Wade Kapszukiewicz said. “Toledo is indeed leading the nation as one of the world's top producers and researchers of clean, green, renewable, alternative energy, and I am very proud of this innovative and collaborative project, which has taken the former Jeep site and transformed it into a solar array to produce clean, renewable energy, while also supporting neighborhood reinvestment.”

revenue is received from the sale of energy, a grants committee comprised of both community leaders and neighborhood residents will recommend the grant awards, followed by approval of the board of the Solar Toledo Neighborhood Foundation of the Greater Toledo Community Foundation.

“This is a milestone for this project — and an exciting one,” stated Keith Burwell, president of Greater Toledo Community Foundation. “Thanks are due to all of the partners in this project for making it become a reality. It has been years in the making, but will support our community long into the future.”



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OSHA issues updated COVID-19 guidance

Article authored by Scott Young and Hannah Caldwell at Thompson Hine LLP.

On January 29 the Occupational Safety and Health Administration (OSHA) released updated guidance on how to mitigate and prevent the spread of COVID-19 in the workplace. The guidance was issued in response to President Biden's Executive Order directing OSHA to release clear direction for employers on reducing COVID-19 transmission in the workplace.

Many employers have already implemented some of the policies and procedures enumerated in the guidance through their existing pandemic response initiatives. Further, the guidance notes the changing recommendations issued by the Centers for Disease Control and Prevention (CDC) and State and local health departments and indicates that in identified circumstances those recommendations should be followed. There are also some new recommendations in the guidelines, including the adoption of a comprehensive COVID-19 prevention program. Topics and recommendations in the guidance include:

- Employers should assign a workplace coordinator who will be responsible for COVID-19 issues on the employer's behalf
- Employers should make a COVID-19 vaccine or vaccination series available at no cost to all eligible employees. They should also provide information and training on the benefits and safety of vaccinations
- Employers should provide all workers

with face coverings (cloth face coverings and surgical masks) at no cost to the worker, unless their work task requires a respirator. Employers must discuss the possibility of "reasonable accommodation" for any workers who are unable to wear or have difficulty wearing certain types of face coverings due to a disability

- Employers should require visitors, customers, and other non-employees to wear a face covering at the worksite unless they are under the age of two or are actively consuming food or beverages on-site
 - Employers should not distinguish between workers who are vaccinated and those who are not. OSHA has adopted the CDC's current guidance that there is no evidence that COVID-19 vaccines prevent transmission of the virus from person to person
 - Employers should provide guidance on screening and testing
 - Employers should isolate workers who show symptoms at work and minimize the negative impact of quarantine and isolation of workers
 - Employers may not discriminate against employees for raising a reasonable concern about infection control related to COVID-19 to the employer, the employer's agent, other employees, a government agency, or to the public, or against an employee for voluntarily providing and wearing their own personal protective equipment, such as a respirator, face shield, gloves, or surgical mask
- The guidance also expands upon existing

OSHA recommendations for limiting the spread of COVID-19, including implementing and following physical distancing protocols, isolating workers who are infected or potentially infected, and ensuring that individuals have the supplies necessary for good hygiene practices.

While OSHA notes that its guidance is not a standard or regulation, it states in the guidance that the Occupational Safety and Health Act requires that employers comply with safety and health standards and regulations issued and enforced either by OSHA or by an OSHA-approved State

plan. OSHA also notes that the Act's General Duty Clause, Section 5(a)(1), requires employers to provide workers with a workplace free from recognized hazards that are causing or likely to cause death or serious physical harm. Noncompliance with OSHA's specific regulations and the General Duty clause may result in fines and enforcement directives.

Employers should reevaluate their current compliance and COVID-19 safety controls with OSHA's updated guidance and take appropriate steps to ensure that they are following OSHA's recommendations.



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Smart building

...Continued from page 6

management and occupant safety, it's important to look beyond large buildings and look at ways smaller buildings can benefit from smart technology.

We see technology like FIN microBMS becoming more pervasive in the small to mid-sized buildings market. FIN microBMS supports small sites with a plug'n'play solution to efficiently manage buildings remotely.

Changing the way we work

The remote working wave that we've seen in 2020, has not only changed the way we

work, but also how we view work.

"The basis for this forward-looking working model is further development [of] our corporate culture. These changes will also be associated with a different leadership style, one that focuses on outcomes rather than on time spent at the office. We trust our employees and empower them to shape their work themselves so that they can achieve the best possible results. With the new way of working, we're motivating our employees while improving the company's performance capabilities and sharpening Siemens' profile as a flexible and attractive employer," said Roland Busch, CEO, Siemens

Flexible spaces

Building owners, particularly those operating in retail, will need to make their buildings more flexible and adaptable – victory and profits will go to the nimble.

"I expect an increase in demand for warehouses as many businesses will move from brick-and-mortar stores to the internet where much of it will remain," said Michal Lom, sales manager, northern and CEE, J2 Innovations.

Despite the growing demand for online shopping, brick and mortar spaces are still needed to service market needs that cannot be met online. Cafés, gyms, hairdressers, online order pickup and returns, postal counters or delivery counters, clothing alterations, etc. These market demands cannot be

delivered to your door and thus require safe and smart spaces. Retailers and hospitality companies need to adapt to these changes and rethink their spaces to consider omnichannel experiences. In-person shopping isn't dead – it's just different.

Digital processes

If it hasn't already been transformed, 2021 will see ever more processes becoming digital. We all have to consider what this means for our own businesses and how quickly we can adapt, adopt, and apply to keep ahead of the market and the competition. For building operations, space must adapt and so must the services a building provides for comfort, safety, health, and security. These digital processes, such as AI, data management and interpretation, cloud and edge computing, and IoT will have a growing role in smart buildings.

"What will have changed for good is the better understanding of the benefits of digitalization across society and industries; including online payment, online work, online services. Many digital solutions already today provide massive benefits without significant upfront cost - the COVID crisis massively increased the awareness for those solutions," said Alex Rohweder, COO, J2 Innovations.

The convergence of IT and OT

The industry will continue to see a concerted push to integrate and leverage the vast amounts of valuable data derived from operational technologies (OT) into the information technology (IT) side of the enterprise.

"Most mature IT infrastructures already possess and maintain existing compute resources. This infrastructure supports

traditional mission critical IT enterprise applications. Utilization of existing IT infrastructure assets and the associated enterprise applications layer enables OT data to be more seamlessly consumed. This will result in streamlined business processes, reduced cost, increased productivity, and optimization of existing and future enterprise assets," said Steve Glymph, senior director, strategic partnerships, J2 Innovations

A new kind of interoperability

Over the years, we have seen great progress with interoperability between devices and advances in how applications consume data. The future holds a focus on solving a larger interoperability challenge between applications and IoT platforms.

"There are a bunch of initiatives to resolve the interconnectivity problems we have in the building automation industry. I see investment from multiple organizations in this area of interconnectivity between different protocols and frameworks. A good example of that is the web of things (WoT), which is an open source standard being pioneered by Siemens. It is an exciting initiative," said Hisham Ennarah, vice president of engineering, J2 Innovations.

As we continue to make adjustments in how we interact with and use buildings, IoT devices, and technology in general we will see a continuing drive towards automation, remote management, and streamlined digital processes. While the virtual world may be a strain on our needs as social creatures, this pandemic has definitely moved the needle towards innovation for all of us.

Article written by Jenny Evans with J2 Innovations.



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Report: Buy American policies would boost mfg jobs

A new report released by BuildingClean.org found increasing the rate of residential deep retrofits across the nation coupled with the implementation of “Buy American” procurement policies could create more than 170,000 American manufacturing jobs. The report, *Manufacturing Efficiency: How Buy American Policy Can Boost Jobs Manufacturing Energy-Efficient Products*, compared the manufacturing job creation potential of strengthening all retrofits to full deep retrofits, increasing the retrofit rate, and implementing Buy American policies.

“Increasing the retrofit rate, strengthening retrofits, and enacting Buy American policies will deliver more than 170,000 manufacturing jobs across the nation, while driving down emissions and securing a more sustainable future for the nation,” said Jason Walsh, president of the BlueGreen Alliance Foundation. “This report shows the tremendous opportunity in making the products we need to make our homes and buildings more energy efficient at a time when America’s manufacturing sector is in need of revitalization and millions of Americans have applied for unemployment during the ongoing pandemic.”

The study found that increasing demand for American-made energy-efficient housing products through Buy American policies and deep retrofits will boost job creation in manufacturing, with appliance and heating, ventilation, and air conditioning (HVAC) manufacturing showing the most growth. At the current estimated retrofit rate of 2%, just



strengthening retrofits to full deep retrofits would support 132,000 manufacturing jobs. Adding a Buy American policy to a deep retrofit rate of 2% would create another 20,000 jobs. Finally, the report explored the impact of increasing the deep retrofit rate to 4% while also enacting a Buy American policy. Under this scenario more than 170,000 jobs would be created.

“Our nation is long overdue for a massive infrastructure investment, including funds to modernize our existing buildings,” said United Steelworkers (USW) international president Tom Conway. “Using American-made materials as we upgrade our homes and businesses will not only ensure that they are safer and more efficient, but will also create good, union manufacturing jobs, helping rebuild our battered economy and laying the foundation for a brighter future for all.”

The report found that with the right policies in place, energy efficiency could be a driver of significant growth of manufacturing

jobs in the United States. Deep retrofits go beyond basic weatherization and feature

exterior continuous insulation; energy efficient appliances; HVAC; and windows.

“The benefits of enacting the actions outlined in *Manufacturing Efficiency* are undeniable,” Walsh said. “The creation of manufacturing jobs in communities across the nation will help our nation heal from the devastating economic impacts of the ongoing COVID-19 pandemic. Stopping energy waste will strengthen our fight against climate change. And, ramping up residential deep retrofits – especially in affordable housing – will make the buildings we live and work in healthier and safer.”



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Turner Electrical Services earns recognition

Turner Electrical Services LLC, a provider of electrical services throughout northwest Ohio and southeast Michigan, was named a 2020 Achieving Contractor Excellence (A.C.E.) award winner during ABM Franchising Group's 2021 Continuing Education Conference held in late January.

The award is presented annually by ABM Franchising Group to TEGG Service contractors that show outstanding organizational performance in the categories of business growth, sales performance, profitability, maintenance base growth, and implementation of the TEGG system. According to officials, in a year marked by the COVID-19 pandemic, Turner Electrical Services achieved impressive performance levels in multiple categories, alongside fellow

A.C.E. Award winners adi Electrical Limited in Birmingham, United Kingdom, and Sabino Electric, in Tucson, Arizona.

The company, which became a TEGG franchise in 2000 and previously won the A.C.E. award in 2015, currently operates out of Sylvania, Ohio and Ann Arbor, Michigan.

"Turner Electrical Services' success is driven by a fantastic team following the TEGG service model. Our award-winning team had adjustments to make, as so many of our clients and customers did," said Chad Turner, president of Turner Electrical Services.



Chad Seibert with Turner Electrical Services was awarded the TEGG Technician of the Year award

clients in diverse industries, including refineries, hospitals, and industrial and commercial facilities.

"I can't tell you how impressed I am with Turner Electrical's commitment to the TEGG system. They faced a challenging year and found opportunity to grow their business," said ABM Franchising Group senior vice president Bruce Phibbs. "They adapted to a changing, difficult situation and helped their clients adapt, too. When it comes to our annual awards, I'm always proud to recognize a great business, but this year I feel we're also awarding great community leadership."

In a presentation earlier in the conference, Chad Seibert of Turner Electrical Services was awarded TEGG Technician of the Year. The award announcement praised Seibert's responsiveness to customer needs, noting his efforts to exceed customer expectations in his role as lead PM technician that led to additional testing and maintenance business.

ABM Franchising Group, LLC, a subsidiary of ABM Industries Incorporated, is a provider of facility solutions and offers a portfolio of franchise networks delivering mechanical and electrical service and preventive maintenance solutions to commercial and industrial buildings. ABM Franchising Group consists of two franchise brands: Linc Service and TEGG, which Turner Electrical Services, LLC operates under.

Turner Electrical Services LLC is wholly-owned subsidiary of Sylvania-based Turner Electric Company, a certified woman-owned business that has serviced northwest Ohio and southeast Michigan since its founding in February of 1981.

"I think the adaptability and resilience that everyone at Turner Electrical Services showed this year is proof that our investments in talent and process have really paid off. They've put us in a position to be the experts our clients need, especially in a crisis."

With more than 20 years of experience specializing in acceptance testing, predictive and preventive maintenance, service, and asset management for electrical distribution systems, Turner Electrical Services has helped design and execute projects for

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Area Architectural Firms

Listed by Number of Local Employees

	# Local Employees	Founded Locally	Top Local Officers	Key Areas of Specialization	Top Projects Awarded 2020 / 2021
SSOE Group 1001 Madison Ave - Toledo	330	1948	Vince DiPofi, PE, President & CEO	Commercial; Corporate; Education; Government; Healthcare; Workforce Development	Henry Ford College, Entrepreneur & Innovation Institute/Technology Building Renovation & Addition (Dearborn, MI, Size: 69,258 SF); Encompass Rehabilitation Hospital of Gadsden, Renovation & Addition, (Gadsden, AL, Size: 5,615 SF)
Poggemeyer Design Group, A Kleinfelder Company 1168 N Main St - Bowling Green	180	1968	Jack A. Jones, PE, CEO, Poggemeyer Design Group, A Kleinfelder Company	K-12, College & Universities; Senior Living Complexes; Civil; Electrical; Environmental; Mechanical; Structural; Transportation	La-Z-Boy; Wauseon Schools; Lucas County SeaGate Convention Centre (1,200 Seat Ballroom Expansion in Toledo); Ohio Logistics (100,000 SF Marelli Injection Molding Plant in BG)
the jdi group, Inc. 360 W Dussel Dr - Maumee	75	2002	Timothy E. Fry, AIA, NCARB	Food Processing & Facility Design; Manufacturing Facility Design; Petro-Chem Process & Facility Design; Controls & Automation; Automotive Facility Design; Office, Retail & Higher Education; Commercial & Institutional	Ohio Department of Rehabilitation & Correction – Correctional Treatment Facility, 26,000 SF Addition; Tolson Enterprises – New 22,000 SF Office & Warehouse
The Collaborative One SeaGate, Park Level 118 - Toledo	39	1973	Philip G. Enderle, ASLA, LEED AP, Principal	Architecture; Landscape Architecture; Campus & Urban Planning; Interior Design	Washington Local Schools / New Shoreland & Jackman-Wernert Elementary Schools (Size: 80,000 SF each); Alma College / Learning Commons (Size: 56,100 SF)
Buehrer Group Architecture & Engineering, Inc. 314 Conant St - Maumee	20	2001	Kent Buehrer	Architectural; Electrical; Mechanical; Structural; Interior Design	Trumbull County Full Service Maintenance Facility; Birchard Public Library
Encompass Engineers and Architects, Inc. 407 West Main Cross St - Findlay	15	2001	Michael E. Kiser, President	Power Engineering; Electrical Engineering; Civil & Structural Engineering; Architecture; Mechanical Engineering	i.n.a.
Munger Munger + Associates Architects Inc. 225 N Michigan Ave - Toledo	15	1927	Hal P. Munger, FAIA; David J. Munger, AIA	Education; Institutional; Civic; Non-Profits; Residential	Rhodes State College Boora Center (Size: 50,000 SF); Fremont Elementaries (Size: 58,000 SF each)
Bergmann 3234 Executive Pkwy, Ste 111 - Toledo	13	2017	Richard Chelotti, PE, Senior Vice President, Operations	Architecture & Interior Design; MEP (Mechanical, Electrical & Plumbing); Energy & Sustainability; Civil & Site; Environmental Permitting & Design; Urban Planning & Revitalization	Forward Air, National Hub; The Escape Games
Duket Architects Planners 830 N Summit St - Toledo	10	1971	Michael Duket, AIA	Civic; Education; Commercial; Institutional; Residential; Historic	Wood County Senior Center
Thomas Porter Architects, Inc. 8 N St Clair St - Toledo	10	2009	Andy Knopp; Julie Apt; Andrew Hofbauer	Architecture; Planning; Interior Design; Historic Preservation; K-12 Academic; Mixed Use Commercial	The Gateway at Lowertown (Toledo, OH) Historic Preservation / Commercial Renovation (Size: 65,000 SF); Toledo School for the Arts – The Next Big Thing: Historic Renovation & Urban Addition – K-12 Educational Facility (Size: 5,000 SF Addition & 25,000 SF Building Renovation)

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Area Architectural Firms

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	# Local Employees	Founded Locally	Top Local Officers	Key Areas of Specialization	Top Projects Awarded 2020 / 2021
Architecture By Design, Ltd. 5622 Mayberry Square - Sylvania	9	1992	Dwight Gilliland, AIA	Restaurants; Retail; Industrial; Healthcare; Office; Recreation	Herr Plumbing (Size: 10,000 SF); Monnette's Market (Size: 11,000 SF)
MacPherson Architects Inc / ZMA 617 Adams St - Toledo	5	2004	Kate MacPherson, AIA	Commercial; Residential; Civic; Industrial; Mixed Use; Recreational	The Social Mixed-Use (Size: 20,000 SF); LaPlante RE Offices (Size: 26,000 SF)
Poulos + Schmid Design Group, Inc. 1717 E Perkins Ave - Sandusky	5	1983	Greg L. Schmid, President	Healthcare; Educational; Religious; Commercial; Government; Residential	Castaway Bay Resort Renovations Cedar Point (Sandusky, OH); Erie County Health Dept Addition (Sandusky, OH)
Rossi Associates, LLC 1821 Spencer St - Toledo	5	1960	Scot A. Rossi, AIA	Commercial; Aviation; Religious; Housing; Dining / Entertainment	i.n.a.
Stough & Stough Architects 6377 River Crossings, Ste 1 - Sylvania	5	1984	Craig A. Stough	Educational; Government; Commercial; Religious; Sports Facility	i.n.a.
Champlin Architecture 6635 W Central Ave - Toledo	2	2016	Kristie Stanfield	Healthcare; Higher Education; Civic; Workplace; Worship	University of Toledo - North Engineering Lab / Classroom Renovations; Bon Secours Mercy Health - Perrysburg, Physician Suites
Engage Studio Architects PO Box 167647 - Oregon	1	2019	Erin K. Curley	Architectural Design (Conceptual to Construction); Site Plans; Certificate of Occupancy Plans; Accessibility Assessment; Consulting; Construction Administration	Perrysburg Heights Community Association Pavilion (Size: 1,500 SF); Dog Boarding & Day Spa Facility (Size: 6,100 SF)

Published 03-21; List includes only those Architectural Firms that responded by deadline; i.n.a. = information not available

Ohio Sea Grant

...Continued from page 1

facility on Lake Erie on South Bass Island – will use the funding to receive various upgrades including a conversion of a 1,700 square foot shop area for maintenance crew, currently

in an ideal shoreline location, into a “flex lab” to support both education and research related to Lake Erie, as well as construction of a new 2,300 square foot mesocosm facility (\$1.9

million); new lab equipment critical to outfit new lab space with cutting edge scientific instrumentation (\$500,000); as well as real-time data sensors to monitor key Lake Erie tributaries (\$250,000).

“Two structures will come online in 2021 – a renovated space to accommodate a flex research lab space and secondly, a new lake-linked, flowthrough experimental tank system. These two additions will increase the lab’s ability to assess the condition of Lake Erie and answer pressing research questions,” said Winslow. “Both the lab and Ohio Sea Grant are essential to the State’s efforts to study, manage, and improve the quality of Lake Erie and this effort will add new tools to the toolbox. Clearly, this investment in the lake and the lab will help support both State and federal efforts to restore Lake Erie.”

The architect for the project is Maumee-based Buehrer Group Architecture & Engineering, Inc. and the contractor is Findlay-based ATI Construction Co., Inc. The project is set to begin in the spring and is expected to be complete in fall or early winter.

“Not only will this addition help us address the nutrient loading and harmful algae blooms (HABs) issue impacting Lake Erie, but it will also support research efforts to address current and future lake stressors such as pharmaceuticals, plastic debris, emerging chemicals of concern, etc., and assess ecosystem stability / condition, such as impact of invasive species, lake levels, climate change, Lake Erie low oxygen ‘dead zones,’ etc.,” said Winslow. “We are seeing an increased need for researchers to have direct access to lake water to study the lake’s condition and the health of organisms that call the lake home. The research and monitoring questions being asked today will benefit from the increased capacity of this lake-based facility. Concurrently, our capacity to meet the needs of both academic and agency researchers will benefit from these additions.”

According to Winslow, the “flex lab” space will be utilized for analytical chemistry, behavior studies, and genetics work. Beyond research, the lab will be used for instructional purpose use with around a 30 student capacity. The lab will include added ability to process

water samples, as it currently process less than 8,600 samples for things such as nutrients, toxins, metals, and plankton annually.

The mesocosm, according to Winslow, will be a multi-use research facility to study algae and fish and how they interact under exact lake conditions, which will replace the work done in small tanks within labs.

“There will be both static and flowthrough research conducted in this facility. Studies in this new facility will provide a link between field surveys and highly-controlled laboratory experiments conducted outdoors, because this work incorporates natural variation,” explained Winslow.

Winslow also noted that a portion of the lab equipment support will be used to outfit both the flex lab and mesocosm facility with needed analytical equipment (various sensors, nutrient analyzers, growth / environmental chambers, DNA sequencers, microscopes, balances, FlowCam imaging systems, chillers, etc.)

The sampling equipment, according to Winslow, will allow the lab to gather real-time data in key locations within the Maumee River system.

“This will allow us to inform agencies and stakeholders of bloom and nutrient movements. Additionally, these buoys will provide data regularly requested by National Oceanic and Atmospheric Administration (NOAA) Great Lakes Environmental Research Lab in Ann Arbor to help aid in short- and long-term lake forecasting, for example water mixing, water levels, wind speed and direction, wave height, water temperature, etc.,” said Winslow.

The Stone Lab has eight full-time OSU employees, 25 seasonal employees, and visiting researchers from OSU and sister institutions, including 35 annual projects, 44 investigators, and 21 institutions. The range of research conducted includes impacts of climate change on ecosystem functioning; invasive species research; nutrient and harmful algal bloom research; marine debris impacts and ways to reduce future contributions; presence and impacts of chemicals of concern and emerging contaminants; and fisheries, bird, and reptile research.

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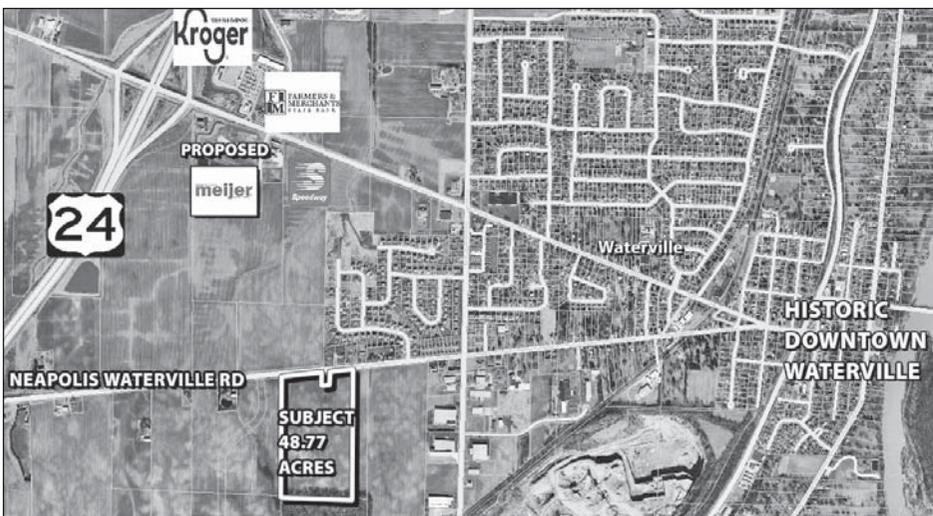
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A LOOK AT CONSTRUCTION PROJECTS IN OUR REGION



Wood County Committee on Aging, Inc.

Mosser is nearing completion on the construction of the new Wood County Senior Center in Bowling Green for the Wood County Committee on Aging, Inc (WCCOA). **Duket Architects Planners** served as architect for the \$8 million project, which includes the construction of a 35,000 square foot facility including state-of-the-art amenities like a full commercial kitchen, nine activity rooms, adult daycare facility, administration offices,

and a full basement for storage. According to WCCOA, the new facility will also be completely accessible and ADA-compliant.

The new facility replaces the current Wood County Senior Center, which was built in 1914 and added onto in the 1950s and formerly served as Bowling Green's Post Office. In the future, the City of Bowling Green is considering the construction of a new municipal building on the site, maintaining its current facade.

First Tee - Lake Erie

Lathrop is working on First Tee - Lake Erie's Dattilo Family Youth Leadership Center on Hill Avenue near Reynolds Road in south Toledo. Sitting on 40 acres, the project – supported in part by ProMedica – includes an athletic field, a driving range, a large short game area, and a 15,000 square foot building with classrooms, gymnasium, games room, and shared office space. The facility will also house the new Schoenrock Family Boys & Girls Club. Completion is expected this fall.

Fremont City Schools

Warner Mechanical Corporation - Plumbing & HVAC is providing services on the construction of a new high school for Fremont City Schools. **Gilbane Building Company** is serving as construction manager and **Mosser Construction** is serving as general contractor on the \$49.5 million, 199,813 square foot project designed by **The Design Architecture**. **J.M. Verostko** provided engineering services. Completion is scheduled for next January.

Village of Oak Harbor

Poggemeyer Design Group, Inc. is providing engineering services on the construction of the Veterans' Park Path for the Village of Oak Harbor. The project includes the construction of an approximately 0.6 mile, six-foot wide concrete path, concrete abutments for a pedestrian bridge, and related path and restoration work.

Toledo Lucas County Public Library

Buehrer Group Architecture & Engineering, Inc. is providing services on renovations to the Toledo Lucas County Public Library's Reynolds Corner branch.

Leipsic Local Schools

Technicon Design Group, Inc. in Ottawa is providing services on the construction of a bus garage for Leipsic Local Schools.

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Deadline is the 10th of the month preceding publication. All projects received by deadline will be considered.

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