

tma news bulletin



"WALKING DEAD" SYNDROME

HIGH SCHOOLS & COLLEGES PREVENTING AMERICAN
YOUTH FROM FINDING REWARDING & LUCRATIVE CAREERS



tma news bulletin

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technology & manufacturing association

Founded in 1925, the Technology & Manufacturing Association (TMA) represents and supports manufacturers in the Chicago metropolitan area and surrounding counties in northern Illinois, northern Indiana, and southern Wisconsin. TMA has almost 1,000 members representing over 32,000 employees and nearly 26 million square feet of manufacturing plant.

TMA is governed by a Board of Directors, composed of executives from member firms. A full-time professional staff works closely with the Board, its committees and trust.

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tma | new members

Welcome to the newest members of the Technology & Manufacturing Association

Kaman Tool Corp.

Cicero, İL www.kamantool.com

LMI Chicago, Inc.

Warrenville, IL www.lmi-chicago.com

Microlution

Chicago, IL www.microlution-inc.com

Protected Flow Manufacturing

Rolling Meadows, IL www.protectedflowmanufacturing.com

Simple Machines Marketing

Chicago, IL www.simplemachinesmarketing.com

ThomasNet

New York, NY www.thomasnet.com

ZD Custom Machining, Inc.

DeKalb, IL www.zdcmachining.com

tma | partners

2018 | gold partners





2018 | silver partner



message from the president



TMA Members & Friends,

Let's start with some numbers....

1 in 7

Thank you for being one in seven. Every day as you drive to your company, you pass 6 other companies that could be (should be?) members of TMA.

21, 500 & 300

Last month TMA again hosted the

Precision Machining Competition. Twenty-one area high schools submitted more than 500 projects, representing the work of more than 300 high school students engaged in some level of manufacturing education.

51

At the Related Theory Graduation, 51 students were recognized for successfully completing 3 years of study, earning their TMA Apprentice credentials as Tool & Die Makers, Mold Builders, and Advanced CNC Programmers.

150

As we enroll the students for this year's first year apprentice training, we should reach 150 students currently enrolled in the three-year program.

1000 / 800 / 20

With about 1000 members, 800 manufacturing members, representing about 30,000 manufacturing workers, and a fulltime staff of 20, the Technology and Manufacturing Association is making solid progress.

But imagine the progress we might make if 1 in 5, or 1 in 4 manufacturers were members of TMA!

Thank you for your membership and your support. I believe we are making a difference, training the next generation of skilled workers, speaking publicly for the industry, supporting and developing our members. I just wonder how much stronger we would be as a "community of *makers*" if we had more companies in the boat with us pulling at the oars.

In this month's TMA News Bulletin we share the good news of our progress together. Please consider sharing this news with your neighbors and invite them to join us at the oars.

Steve Rauschenberger

"WALKING DEAD" SYNDROME

HIGH SCHOOLS & COLLEGES PREVENTING AMERICAN YOUTH FROM FINDING REWARDING & LUCRATIVE CAREERS

There is a "Walking Dead" syndrome in high schools and on college campuses that is preventing America's youth from finding rewarding, lucrative careers. The deteriorating condition is spreading to slow down the nation's economy as available jobs begin to outnumber available trained personnel.

That's how National Institute of Metalworking Skills Executive Director Montez King and Technology & Manufacturing Association President Steve Rauschenberger see the workforce situation, they said in an op-ed piece penned together to run in Chicago area newspapers in light of this year's TMA graduation.

"Of course, we're not talking about real flesh-eating zombies wandering the halls of our institutions of learning," King and Rauschenberger explained. "We're talking about students that are going through the motions of a traditional education system that doesn't prepare them for exciting futures."

NIMS Director Montez King developed the op-ed's thesis a little more during TMA's 2018 Related Theory Graduation ceremony.

"You've been cured from the Walking Dead syndrome," King told the TMA graduates. "Let's talk about that. There's a striking parallel between the Walking Dead and those zombies walking our college campuses today."

King pulled four TMA graduates from the audience up on stage with him.

"Guess what," he told them, "You guys are survivors from all the zombies out there in the room. Just like in the 'Walking Dead' tv series, you're survivors trying to find shelter and seclusion from the zombies. The zombies are walking around groaning, looking to eat your flesh."

And as in the drama, there's always a victim, King said, and the zombies focus on slow-draining him or her.

"If you're the machinists, the toolmakers, you have what it takes to survive in a world of Walking Dead," King said. "You need to know what lies ahead."

Only 16 percent of all high school seniors are interested in trades careers like those the TMA graduates are entering, he said. More than 50% of all jobs in the workforce require a high school diploma and less than a four year degree, and in most cases, those jobs with skills offer better pay than college-required careers.

Unfortunately, the majority of today's students are not aware of other education alternatives that can provide successful, debt-free, and rewarding careers, King and Rauschenberger wrote in the op-ed.

"Our economy is rapidly evolving and the jobs of today and tomorrow require a hybrid style of training and



education for a qualified workforce in the future," they wrote.

Currently, most students graduate from college without the skill set or experience required to be successful in most industries, especially manufacturing.

Over the next decade, 3.5 million manufacturing jobs will need to be filled in America. The horrifying reality is that two million of those jobs are expected to go unfilled because of the workforce's lack of needed skills. Furthermore, there are 5.5 million disconnected young people currently out of school and not working.

As a result, exciting opportunities exist for today's informed youth.

The 51 TMA graduates this year are stepping into full-time, lucrative jobs with no debt and incredible career potential, King and Rauschenberger wrote.

An effort to turn the tide on the devastating Walking Dead syndrome needs to be stepped up.

"We need more young people, along with their parents and educators, to have open minds when it comes to manufacturing careers. It's been longer than we care to acknowledge since we were kids, but if you were to tell us that we could make over \$100,000 with a STEM education, we could have avoided thousands of dollars in student loan debt, and wouldn't have to wear a suit to work – that would have undoubtedly spiked our interest," the two went on.

"With every TMA and NIMS training and graduation, we're raising awareness of the significant benefits of a manufacturing career. We must stay the course and keep engaging the next generation of manufacturing," King and Rauschenberger said.

"We as Americans have a lot to gain from an alive and thriving manufacturing industry,"

they wrote - and that is how to destroy the devastating Walking Dead syndrome.

NEW CHAPTER FOR PAUL ZIEGENHORN OF MATRIX PLASTIC PRODUCTS, INC.

BY FRAN EATON

One thing a person doesn't want to worry about when facing surgery is just how dependable the tiny surgical instrument parts the doctors use really are.

Paul Ziegenhorn and over a dozen members of the Ziegenhorn Family are in their 40th year of serving the ever-changing medical industry – and keeping up with the instrumental advances surgeons need to help their patients.

Paul was 25 years old when he and his brother Jim combined resources to start a tooling business building on their father's engraving expertise. This month Paul will retire as president of Matrix Plastic Products, entrusting the company's future to other members of his family.

"We started implementing the transition plan over ten years ago," he told TMA News Bulletin.

Two of Paul and his wife Mary's three sons are ready to take on the company's leadership mantle, while Ziegenhorn family members continue building the business. Paul's son Andy will take the reins as president & CEO, and Paul's brother, Mark, will continue as CFO, a role he has held since 1999.

Matrix Plastic Products is a "phenomenal example of what a family can do when they work together," TMA colleague John Winzeler said when he presented Paul the Winzeler Award at TMA's 2018 annual dinner.

The company has just undergone a re-branding effort that reflects Matrix's products and services evolution. Matrix began as "Matrix Tooling", a plastic moldmaking business. But as they grew, their OEM customers pushed them to test and sample the molds they designed and built. That led to the company adding sampling presses.

"With the addition of sampling presses, we started a production business that is 85 to 90 percent of our sales now," Paul said.

The business is now known as Matrix Plastic Products and their primary focus is close tolerance parts used in the medical field. Matrix is going through a busy period, Paul said, so much so, the 90 employee company's 30,000 square foot building in Wood Dale, Illinois is getting crowded.

"We started making parts for robotic surgeries in 2000," Paul said. "We make a lot of end-of-arm tools that do cauterizing and stapling during surgeries. We make surgical implants that are treated with steroids - things that go inside the body and stay in there. We mold those parts in our cleanroom."

Clients that design life-affecting instruments like those

demand high standards that must pass stringent FDA requirements. "It's difficult to land those customers, but if you do, it's unlikely you'll be underbid," Paul said.

Things are much different now than they were in 1978, but one thing that has always been a challenge at Matrix will likely continue to be in the years ahead, he said. There will continue to be a need for qualified workers. With that in mind, Matrix consistently works to bring on apprentices and a stream of younger workers to replace the aging workforce.

That on-going challenge keeps Paul active on TMA's Manufacturing Education & Careers Committee (MECC) and serving on local high schools' manufacturing program advisory boards.

"I think we have an opportunity to sell manufacturing careers," Paul said. "It is crucial that we keep pushing them."

The Ziegenhorns not only talk about the next generation of manufacturers, they lived it in May when Paul's brother Mark's son John graduated from TMA's Related Theory Moldmaking program. John, who graduated in 2014 from Bradley University with a degree in chemistry, chose to delve more into mold making and stay with the family business.

"John's been an amazing addition to Matrix, and one of the key building blocks for our next generation of management at Matrix Plastic Products," Paul said.

Much of Matrix's ongoing success is due to the diversity of people – both family members, as well many who aren't – who work well together, Paul said.

"Coming from a family with nine children affects how you view the world and handle business," he said. "Everyone has different abilities, and we've found that when we encourage people to do what they like to do, they excel. That makes this a great place to work."

Paul served as TMA's Chairman of the Board in 2011, a time when the organization's leadership was undergoing change. "But while the work was a challenge, I was really grateful for the help the chairmen before and after me were. It made the changes much easier to navigate," he said.

As Paul steps into retirement this month, he plans to travel more with his wife Mary, enjoy his grandkids, do more gardening and play a little more golf.

But he'll also continue doing what he likes to do: encouraging the next generation to consider careers in manufacturing, while standing alongside proudly as Matrix Plastic Products continues to have a part in making the world a healthier and better place to live.





51 GRADUATE FROM TMA'S RELATED THEORY APPRENTICE PROGRAM

Fifty-one apprentices graduated from the Technology & Manufacturing Association's Related Theory Program on May 24th, 2018, surrounded by families, co-workers, and TMA member company representatives at the Stonegate Conference & Banquet Centre in Hoffman Estates.

After studying for the past three years while working full-time at TMA member companies, 18 apprentices completed required courses in Mold Making, 18 in Computer Numerical Control (CNC) Programming, and 15 in Tool & Die Making.

Among the special guests invited to address the graduates was Deputy Governor Leslie Munger, on behalf of Illinois Governor Bruce Rauner.

"This program and you, the graduates, really personify the great strides we are making in manufacturing in Illinois. Illinois is the heart of manufacturing in the US and I think we could also say that manufacturing is really the heart of Illinois," said Munger.

"With the education, training, and hard work of all the graduates here, Illinois will have a competitive advantage over our neighboring states in the most critical, number one need for companies today – a skilled workforce," she said.

TMA Related Theory graduates attend class two evenings a week for 28 weeks a year, while working full-time. The first year, students learn basic skills such as shop math, blueprint reading, and the basics of machine tool technology. In their second year, students begin concentrating on their chosen specialties in mold making, CNC programming, or tool & die. During the third year, students advance train in their chosen paths.

The program's specialities instructors along with special guest Montez King, executive director of the National Institute of Metalworking Skills, presented diplomas to the graduates.

"I can tell you this much: you have entered into a gateway of endless possibilities," King told the graduates. "Only 16 percent of all high school seniors are interested in the jobs you graduates are pursuing."

King said more than 50 percent of all jobs in the work force require more than a high school degree, but less than a bachelor's degree.

"Plus, jobs that require more than a high school diploma but less than a bachelor's degree earn more money than people with bachelor degree careers," he said. "I want to thank the families for supporting the graduates, and I especially want to thank the graduates for going through the hard work to get to this milestone in your life."

TMA's 70 year old training program is one of the largest, most-recognized precision metalworking apprenticeship programs in the U.S.

GRADUATES

CNC PROGRAMMING

Bryan J. Bell Austin R. Cole Kara F. Connell Armando J. Davila Dan P. Degnan David Delgado Julio Echeverria Jeremy J. Hart Leopoldo Idrogo Nicholas A. Ivanovich Joseph E. Kirby Kevin K. Kotalik Bryant P. Kotlowski Alexander W. Lee-Schy **Edgar Olivares** Humberto Quintana Joseph F. Raguso

TOOL & DIE MAKING

Christopher L. Weldon

Juan M. Beker

Kevin R. Christianson
Phillip P. DeFrank
Michael J. Diehl
Jonathan Flores-Barona
Eric L. Gillen
David E. Henry
Ricardo C. Landa
Bryan P. Melgoza
Jossimar Mendez
Brian T. Miller
Keith M. Murphy
Margarito Rios
Michael J. Smith
Kevin C. Thomas

MOLD MAKING

Timothy M. Auben Joseph A. Berry George E. Christianson III Zachary W. Devore Peter G. Elgeness Jonathan S. Korczynski Nilesh J. Lukose Nicholas L. Merklin Trevor C. Morris Brian G. Nubie Gerardo Quinonez Eduardo L. Ramirez Bradley C. Ritzema Ben M. Romano Eric T. Schmeling Ashley W. Stewart Scott A. Tomsik John W. Ziegenhorn

TMA 2018 RELATED THEORY GRADUATION CEREMONY & DINNER

ADDITIONAL PHOTOS OF THE 2018 RELATED THEORY GRADUATION CAN BE FOUND ON THE TMA FACEBOOK PAGE





developing future manufacturers

TMA 2018 PRECISION MACHINING COMPETITION

PARTICIPATION SURGES AS EVENT CELEBRATES 27 YEARS

A record 20 Chicago area high schools challenged each other in TMA's 27th annual Precision Machining Competition May 10th held at the Mazak Corporation's Midwest Technology Center in Schaumburg.

Showing a renewed high school level interest in manufacturing careers, the 243 competing students submitted nearly 300 machining projects - up from just 71 submissions five years ago.

TMA's Board Chairman Todd Beauchamp and Illinois' Lieutenant Governor Evelyn Sanguinetti were on hand to encourage the competitors, teachers and parents.

"I want to encourage all of you to continue this dream you are starting because manufacturing isn't just about the talent or technical side of what you learn, there is a skill and an art to it. You are all artists embrace that, grow into that and see where it can take you," Beauchamp said.

Lieutenant Governor Sanguinetti urged the students to consider manufacturing as an exciting, lucrative career path.

"Manufacturing is incredibly technical, a great environment to work in, the salaries are amazing, and jobs are available," she said. "I'm so thankful all of you are here thinking outside of the box, and thinking of the opportunities manufacturing provides."

Area TMA member companies volunteered their professional expertise to judge the submissions. Fifty-two winners won certificates and gift cards for the excellence they demonstrated in projects such as CAD design, drill press vices, hacksaw, fixture box, offset v-block, CNC turning, CNC milling and CNC programming.

Among this year's division winners, an unprecedented machining projects

Chicago area high schools that participated in this year's TMA competition included Cary Grove, Glenbard East, Hampshire, Harvard, Homewood-Flossmoor, Jefferson, Lake Park, Leyden East, Leyden West, McHenry East, McHenry West, Palatine, Elk Grove, Rich East, Rolling Meadows, Schaumburg, South Elgin, Streamwood, Wheeling, and Woodstock.

ADDITIONAL PHOTOS OF THE 2018 TMA PRECISION MACHINING COMPETITION CAN BE FOUND ON THE TMA FACEBOOK PAGE



2018 PRECISION MACHINING COMPETITION **SPONSORS**

Merchants & Manufacturers Bank United Scrap Metal **Dial Tool Industries Genesis Automation** Kay Mfg Midaco MSC Industrial Supply Co. **Swiss Automation** Tempel Steel Termax Acme Industries Big Kaiser Billco Corporation **Engis Corporation GCAMP** IMS Buhrke-Olson John Crane Keller-Heartt Co Principal Manufacturing Smaltec International **Tungaloy America** WaterSaver Faucet Co. Weiler Engineering Kennedy Mfg. Made to Measure Amity Die & Stamping B A Die Mold **BTM Industries** First American Manufacturing Finance Helm Tool Inc Larsen Mfg Nu-Way Industries **Orbit Machining Co Progressive Components** Swiss Precision Machining Inc. Team Molding Technologies TWR Service Corp Ward Mfg Mitutoyo Sedwall Mfg

2018 PMC HOST











20.





SOUTH ELGIN JUNIOR WINS 1st PLACE IN TMA MACHINING COMPETITION

PLANS UNIQUE CAREER PATH

Hailey Harden is in her second year studying precision machining at South Elgin High School with her instructor Russ Bartz.

The high school junior raised eyebrows in May when she won first place in NIMS Intermediate Division at the Technology & Manufacturing Association's 27th annual Precision Machining Competition.

"I didn't know what I wanted to do for a career, so as a freshman, I was looking through what was offered at South Elgin, and I saw 'production tech,'" Hailey said. "'Okay,' I thought, this is kinda cool."

Once Hailey got into class starting her sophomore year, she thought the class none of her friends were interested in was fun. She wanted to learn more.

"I really didn't know what I was getting into, but it didn't take long for me to realize I really loved it," she said.

Not only did Hailey love precision machining, she found she was really good at it.

Russ Bartz, Hailey's production tech instructor, said he saw

that Hailey, one of two girls in the program, was a natural in the class.

Bartz said he encourages all his students to take on projects affiliated with the National Institute for Metalworking Skills (NIMS) program. If they excel with those projects, they're automatically prepared to take a NIMS test and earn certification for that particular field of machining.

South Elgin is a select high school that through its curriculum and instructor's credentials has earned credentials to partner with the NIMS.

Bartz himself was a machine operator for 20 years and accumulated six NIMS credentials while he attended college to earn bachelor's and master's degrees, so he could teach high school. After 13 years of developing South Elgin's production tech program, almost 40 students are enrolled in the course.

Over the years, Bartz says his students acquired college scholarships from the Haas Foundation, while others launched careers where their employers pay for education and training. Still others of Bartz' students are attending





four-year colleges for degrees in mechanical engineering.

Hailey says she's interested in pursuing a manufacturing career, most likely in CNC programming. However, she's open to other career paths in manufacturing - and as a woman, she's in a segment of society more and more company owners are pursuing in order to fill the industry's nationwide growing skills gap.

"It's hard to get marketing promotion for production tech," Bartz said. "There's an impression that going into trades will limit education and career options. That's simply not true."

The opportunities to be trained, learn and compete are more and more all the time. Bartz said.

That's good for students like Hailey Harden. She not only won first place in her division among nearly 250 high school students at TMA's 2018 Precision Machining Competition, she won 5th place statewide in the Skills USA 2018 competition.

Hailey's choice of classes have changed not only her career path thinking, but also the way she looks at the world, she told TMA News Bulletin.

"After taking this class, I can look at stuff and think about the process it would take to make it. That's very different from the way I used to see the world," she said.

TMA AFFILIATE FOCUS



MIKE WEBER MLW MARKETING, INC.

Meet Mike Weber, President/Owner of MLW Marketing, Inc. - a 15year TMA member company that provides comprehensive marketing communications solutions for manufacturers. We asked Mike a few "Let's Get Acquainted" questions:

Q: What book had the most impact on

A: "The Last Lecture" by the late Randy Pausch. It is a powerful book written by an amazing man with a unique perspective on life. The book is full of valuable life lessons and insight that made an impact on me and continues to inspire me.

Q: What's the most interesting place vou've visited?

A: New Orleans is interesting on many levels – the history, the music, the food, the architecture – the city has a great energy.

Q: What is your favorite holiday?

A: Christmas and the weeks leading up to it. I enjoy spending time with family and friends, and the holiday season provides a great opportunity to celebrate together.

Q: What's your favorite sports team?

A: The Chicago Bears. I'm a lifelong fan and have followed them through all their ups and downs.

Q: When people come to you for help, what do they usually want help with?

A: Ultimately, they're looking for help marketing their businesses and positioning for growth. I work with manufacturers to create and implement the right mix of marketing communications tools and initiatives (including branding, websites and digital marketing, literature and direct mail, public relations, and technical writing) to accomplish their objectives.

Contact Mike at: 847.726.2790 or mweber@mlwmarketing.com

SECOND RIDGEWOOD HIGH SCHOOL **CLASS COMPLETES INTRODUCTORY** TMA COURSE

Technology & Manufacturing Association had a visit from D.C.-based National Institute for Metalworking Skills' Executive Director Montez King on May 24th - just in time to congratulate the second class of Ridgewood High students as they completed TMA's new in-house daytime introductory machining course.

After touring TMA's on-site tech lab, King encouraged the seniors finishing the course for choosing the growing "work and learn" career path that opens the way for a variety of career options - from metalworking to engineering to entrepreneurships and business development.

Each Ridgewood High student received NIMS certification for CNC Milling operation - their second, after achieving NIMS CNC Lathe Operator competency earlier this spring.

TMA's Training and Education Vice-President Patrick Osborne and Jen Snyder from Ridgewood High's administrative staff were on hand to celebrate the 2017-2018 school year's program conclusion.

"We're very pleased with the program and how well the students did working with TMA," Snyder said after the brief ceremony.

A detailed report on the Ridgewood High program was featured in TMA's October 2017 News Bulletin, available online at www.tmaillinois.org.





TMA FOUNDATION **INVESTS IN AREA HIGH SCHOOLS**

The Technology & Manufacturing Association's Education Foundation continues to help Chicago area high schools build their engineering and machining skills courses by providing grants.

In June, TMA's Board Chairman Todd Beauchamp presented East Aurora High School with a check for \$6,200. The department plans to use the funds to buy two Mitey Machinist packages.

The packages will provide students with what they need to practice a variety of machining skills, including measurement skills and verifying cutting depth. The equipment will also help the students work with design files from Gerber to AutoCAD.

Dr. Margo Schmitt, grants coordinator for East Aurora School District 131 and Beatrice Reyes Childress, Assistant Superintendent of Educational Services received the check for East Aurora High School.

In May, Education Foundation board members Nicole Wolter of HM Manufacturing and Keith Krutz of IMS Buhrke-Olson presented Streamwood High School instructor Matt Erbach with a check for \$12,463.35.

Streamwood High plans to use the funds to buy measuring tools such as an optical comparator, a roughness gauge, double end thread plug gauges, go/no-go ring gauges, countersink gauges, and go/no-go gauge pin sets.

continued on next page...



MEET THE TMA STAFF



DANIELA V. **CULOTTA** General Ledger Accountant

Daniela V. Culotta's main responsibilities at TMA include maintaining general accounting duties with all entities, analyzing and assisting with month end closes, and helping other departments with various tasks when TMA gets busy.

We asked Daniela the following:

Q: If you could have only one superpower, what would it be?

A: I'd want to be able to absorb the power to learn on the fly. I'm pretty good at absorbing information. I just want to be able to hone in on it and make it instantly learned. Kind of how Neo was in the 'The Matrix', he learned Kung-Fu in seconds!

Q: What was your favorite TV show when growing up?

A: "The X Files". It's still is my all-time favorite show. "The Jetsons" was my favorite cartoon when I was kid. Guess I'm obsessed with Space.

Q: What hidden talent do you have that most people at TMA don't know you have?

A: I earned the 'Sharpshooter' badge when I was Navy ROTC with both rifle and pistol. I still practice every now and then.

Q: When did you accept a dare that you later regretted?

A: I'm not a roller coaster person. So when someone dared me to get on 'Raging Bull' at Six Flags, I had the worst panic attack of my life and I was shaking when I got off. Never again.

Q: What's your favorite task at TMA?

A: I love accounting, and sincerely enjoy the job here. I also do Spanish translation, so when I help an individual with an issue, and I see that they're grateful for the information, it always puts a smile on my face knowing that I was able to help them.

Contact Daniela at: 847.825.1120 x1327

TMA FOUNDATION INVESTS IN AREA HIGH SCHOOLS continued from previous page...

In May, David Wietrzak, division head of Rolling Meadows High School's Career & Technical Education, Rolling Meadows High Principal Eileen Hart and division instructor Anthony Genovese received a \$14,500 grant from TMA's Education Fund.

The funds for Rolling Meadows to buy a CNC Mini Mill was presented by Education Fund board member Ryan Wiegel of Wiegel Tool Works and TMA Education and Training Manager Leigh Coglianese.

South suburban Rich East High School's Applied Technology teacher Mike Wilson received a grant from TMA's Education Foundation for installing Acurite DRO's on three mills and two lathes. Wilson said the department plans to use the DRO's to expand students' machining knowledge, as well as work on more NIMS credentials and Precision Machining Competition parts.

The first year of the program, Rich East had 16 students, six successfully earned NIMS credentials. Five of those students received local job offers. Last year the number of students in the program more than doubled, with 13 of the 40 students earning NIMS credentials, job placements and a few four-year college scholarships. This year, Rich East has 45 students and are expanding the program to other Rich Township high schools. They hope to add a Metals 2 class at Rich East in the 2019 school year.

TMA associate Sandy Sempowicz presented the check for \$5,580 on behalf of the Education Foundation on a day Wilson's class was taking a NIMS certification exam.

McHenry East High School received \$29,775 from the Foundation to buy two more refurbished Monarch manual lathes with 2-axis DRO's as part of the school's five year plan to renew and update their manufacturing lab.

The school's instructor Gaylord Rodeman told the Foundation the school's current manual machines were not able to hold the tolerances required to meet NIMS and TMA project specifications. The goal is to replace all six of their old lathes with refurbished Monarch machines.

McHenry East High School had 100 students enrolled in its Metals I class for introduction to manual machining with mills and lathes, an 80 percent increase over last year. This year, 30 students are enrolled in Manufacturing I for manual and CNC machining, and 15 to 30 students in Manufacturing II for advanced CNC machining.

The school's manufacturing program was approved for dual credit with McHenry Community College this year, allowing students to earn up to six college credits in Industrial Machine Technology. Currently, the program partners with local industry through the school's advisory board and are working towards a summer internship program and practicum program.

TMA Education Foundation member Nicole Wolter, who also serves on McHenry East High School's Manufacturing Advisory Board, was on hand to make the presentation.



tma | events

21 26

July 10

IT Peer Group

Is simply "backing up" enough? Are you certain they are usable, good back ups that are tested and verified? Finding out after an incident is not the time! Join us for a discussion on cloud back ups, disaster recovery testing, and learn how you can restore your entire server in just minutes.

TIME: 11:30am - 1:30pm

COST: Free

LOCATION: North Barrington, IL

July 12

Lunch & Tour: Alliance Laser Sales

Alliance Specialties & Laser Sales have united efforts in order to bring their customers the best when it comes to laser technology, mold finishing, and complete in-house service. Come learn more about their services.

TIME: 11:30am - 1:30pm

COST: \$35

LOCATION: Wauconda, IL

July 17

WTMA Lunch & Tour: Ex-Cell Kaiser

Join us as the Women in TMA Committee hosts their yearly tour focused on women-owned operations. Ex-Cell Kaiser is a Certified Women's Business Enterprise, operated by Janet Kaiser. Ex-Cell manufactures high quality waste and recycling receptacles for indoor and outdoor public spaces. TIME: 11:30am - 1:30pm

COST: \$35

LOCATION: Franklin Park, IL

July 19

HR Peer Group

Topic: Workers compensation insurance is legally required for all businesses in Illinois. Learn what steps your company might take to control its costs in the current market. TMA's HR Group welcomes Steve Lorenzini and Marc Alberico, highly experienced insurance brokers from TMA's valued partner, Daniel & Henry Co., to discuss market conditions, premium computations, claims review, safety and control services and ways to improve your experience ratings. TIME: 11:30am - 1:30pm

COST: Free

LOCATION: Schaumburg, IL

July 25

Safety Peer Group

Come join your TMA peers to discuss Accident Investigations, Learning from Loss. The meeting will discuss key items that should be documented and how to make the most of the information to prevent reoccurrence. The group is encouraged to share ideas and best practices.

Time: 11:30am - 1:30pm

Cost: Free

Location: Schaumburg, IL



August 2

Young Leaders Summer Social

Join the TMA Young Leaders and your fellow manufacturers for a casual gathering on the patio at Pinstripes. Guests will be assigned to random teams and compete in a tournament. Get to know others in the industry with a friendly competitive twist! Ticket includes Bocce, heavy appetizers, and open bar. Time: 5:30pm - 7:30pm

Cost: \$45

Location: Oak Brook, IL

August 9

Lunch & Learn: Waltz Brothers

Learn a new way of looking at, organizing, and managing your job shop that is superior to the mass production model you are currently using.

TIME: 11:30am - 1:30pm

COST: \$35

LOCATION: Wheeling, IL

August 14

Operations/Plant Mgrs. Peer Group

The KION Group is a global leader in industrial trucks, related services and supply chain solutions. Across more than 100 countries worldwide, the KION Group designs, builds and supports logistics solutions that optimize material and information flow within factories, warehouses and distribution centers.

TIME: 11:30am - 1:30pm COST: Free

LOCATION: Lisle, IL

August 17

Golf Outing - Kemper Lakes Golf Club

Join your colleagues at TMA's second outing of the summer. Outing includes: 18 hole scramble with cart, southwest barbecue, contests and watering holes; prizes for contest winners and top 25% of golfers. Reservations limited. Early bird pricing until August 3. Time: 8am shot-gun start

Cost: \$150/individual \$550/foursome

Location: Kildeer, IL

August 21

Sales & Marketing Peer Group

Come share your sales and marketing experiences, challenges and questions with your manufacturing peers, learn and benefit from a group dynamic. Free to all manufacturing members. Lunch is provided.

TIME: 11:30am - 1:30pm

COST: Free

LOCATION: Lincolnshire, IL

August 28

Volunteer Event by Christians in Mfg.

Join us for the 3rd Annual TMA Volunteer event hosted by the Christians in Manufacturing Committee at Feed My Starving Children. Help make and send out meals to families in need around the world! Fuel up with pizza beforehand at Innovative Components. TIME: 5:00pm - 7:00pm

COST: \$10

LOCATION: Schaumburg, IL

October 11

Lunch & Tour: S&C Electric Company

S&C Electric Company was founded in 1911, and is a global provider of equipment and services for electric power systems. Their mission is to be the leading specialist in electric power switching, protection, and control by creating innovative solutions that are easily applied and provide the best long-term value.

TIME: 11:30am - 1:30pm

COST: \$35

LOCATION: Chicago, IL



ADVERTISE IN THE TMA NEWS BULLETIN

For information, contact Maxine Difino at 847.825.1120 or mjd@tmaillinois.org

TECHNOLOGY & MANUFACTURING ASSOCIATION

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