



tma news bulletin

THE VOICE OF ILLINOIS MANUFACTURING



ARE YOU READY?



tma news bulletin

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TMA News Bulletin is published regularly by the
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1651 Wilkening Road | Schaumburg, IL 60173
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technology & manufacturing association

The Technology & Manufacturing Association (TMA) was founded in 1925 by eight small manufacturing companies who believed they could better themselves by associating with one another. Through the years, members established programs and services that would help their businesses grow and prosper, train their employees, and provide medical and retirement benefits. As a result of these efforts, TMA has grown into a not-for-profit organization of precision manufacturing and supplier companies in the greater Chicago area.

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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message from the president



TMA Members & Friends,

I am proud. I make things..., and you can too!

In the 39 months since I joined TMA I have learned a lot. But in many ways, I still have a lot to learn. Skills gap, baby boomer retirements, aging tool rooms, on-the-job training and workforce development are complex, frustrating challenges that are difficult to understand and even harder to address.

All over the Chicagoland area community colleges sit with empty manufacturing labs. Most high schools have abandoned industrial arts education, and confused elected leaders often still cling to the idea that we're the Rust Belt and we're now headed for a service-based economy.

When Congressman Peter Roskam visited TMA, and was asked about the growing rift between haves and have-nots in America, he said something that has stuck with me. He said that successful Americans, (like the members of TMA) have stopped telling their stories. He argued that manufacturers need to talk to their employees about how they succeeded, and point out how they can too.

In a meeting last week, someone half seriously said he would like billboards along the Chicago expressways telling of the opportunities in manufacturing. I initially scoffed at the idea, but he is right on the central point: we all need to tell our stories.

There are hundreds of inspiring stories among the ranks of TMA members. How their companies were started, how they sacrificed, and how they succeeded. We need to again start sharing those stories.

We don't just make parts, or apply coatings, or bend metal, we manufacture stable families, good careers with employee training and advancement and a chance to be an owner.

Maybe we need to start in our own lunchrooms to share the good news. "I am proud. I make things and you can too." We need to share that effort, hard work and productivity are respected and rewarded in manufacturing careers. And then maybe we need to remind our family members, and the people we go to church with, and the folks at whatever club we are active in: "I am proud. I make things, and you can too."

If we want the workforce we need, we need to tell everyone who will listen that manufacturing is America's future, that manufacturing provides not just good jobs, but careers and opportunities. We need to brag a little about our success and invite others to join us in it.

The workforce we need is in front of us, in our lunchrooms, at our churches, serving us coffee at Starbucks. If we want them, maybe we need to inspire them and ask them to join us.




Steve Rauschenberger

ARE YOU READY?

RENEWED MANUFACTURING OPTIMISM MEANS MORE WORKFORCE TRAINING

Nearly 60 percent of manufacturers say a lack of qualified workforce could impede company growth.

Optimism among U.S. manufacturers is high once again, and with that positive outlook is anticipation of more work and more business – every company owner's dream. But along with that good news is the sobering realization that finding qualified workers to meet those demands won't be easy, an industry report issued in July said.

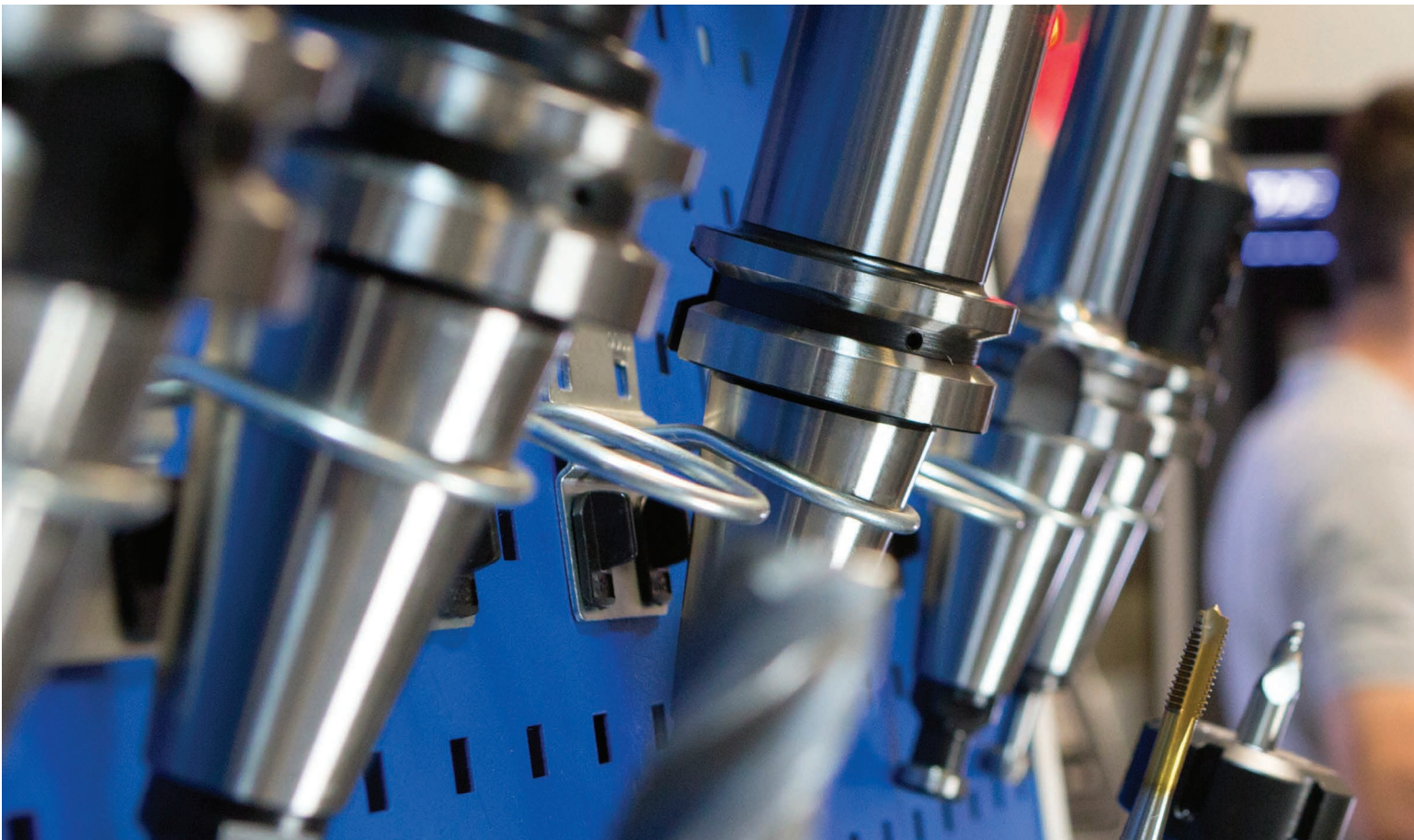
All that really isn't news for anyone who has been in manufacturing for ten years or more. While a struggling national economy brings on one set of challenges, a prosperous economy brings another.

Among the 250 companies with between 50 and 250

employees that responded to Naperville-based Sikich LLP's third annual manufacturer survey, almost 80 percent said they are more optimistic about the U.S. economy. The study indicates almost 70 percent of those answering said they expected to hire more employees in 2017.

That need for more skilled workers to fulfill the demands of a reviving U.S. economy has made workforce challenges manufacturers' top priority. It's so important that nearly 60 percent point to a lack of qualified workers as a barrier to business growth.

That's serious. Unemployment is reaching an all-time low. And the lack of available hires with needed skills could prevent companies from taking full advantage of the current upswing in the economy? How can that be?



Study says manufacturers aren't doing enough to train workers

"The use of advanced technologies across manufacturing operations requires workers with a higher level of training and skills," said Jerry Murphy, partner-in-charge of Sikich's manufacturing and distribution practice. "Our report found that while manufacturers recognize the gaps in workforce development, many simply are not doing enough to train and equip workers to thrive in today's increasingly complex manufacturing operations."

Indeed, more than half of respondents said their companies have no involvement with high schools, community colleges or universities to develop skilled workers. And more than 80 percent said they provide 40 hours or less of annual training per employee.

"Manufacturers must prioritize workforce training and development within their organizations and collaborate with schools and professional associations to train and recruit talent," said Joy Duce, partner-in-charge of Sikich's human resource consulting services practice. "The companies that embrace workforce development as a key initiative will be in a better position to ensure long-term viability and competitiveness."

TMA offers needed workforce training

The "gold standard" of the very kind of workforce training and development manufacturers demand is exactly what the Technology & Manufacturing Association has been offering its members for decades.

While training is one of TMA's most-tapped and most-recommended membership benefits, not everyone eligible is taking full advantage of the high quality, accessible courses TMA offers. Instructor-led courses are offered at the TMA headquarters in Schaumburg and easily-accessible training is available online.

Fall classes led by TMA instructors in Related Theory will begin again in September. Hands-on training on high-tech machinery is available for employees of TMA members, along with a design school, safety and technical training, as well as the TMA Leadership Institute.

Online training includes courses on manufacturing processes and materials, quality, manufacturing fundamentals, lean manufacturing, engineering and automation, MSSC Certification, and NIM CNC Operation training. The Tooling U Occupational Package and new hire training is also available online.

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Nearly 60 percent of manufacturers say a lack of qualified workforce could impede company growth.



TMA MEMBER PROFILE

ALLIANCE SPECIALTIES AND LASER SALES



ALLIANCE (al-li-ance)

a close association of business or other groups,
formed to advance a common interest or cause.

(L-R) Doug Niggeman, Tony Demakis, John Demakis, and Chris Demakis.

By Fran Eaton

"We know molds, that's all we know," John Demakis, co-owner and president of Alliance Specialties and Laser Sales says.

And knowing molds is crucial for the network of Chicago area manufacturers Alliance Specialties serves. The company located in Wauconda Illinois does mold maintenance and polishing, laser welding and engraving, as well as hot runner manifold cleaning. They also sell laser welders and engravers.

"There's a whole world out there that needs laser welding, that needs polishing, that needs something that we offer at Alliance. We are working to market ourselves better to tell people what we do. There are opportunities out there – we just have to find them ... or they have to find us." Demakis told TMA's News Bulletin.

Alliance's behind-the-scenes work is the type that exists and thrives due to relationships with other manufacturers. Advertising what they do every day to the public would be

meaningless, they say, because their mold repair work focuses on keeping manufacturers active and productive.

"What's hard is because we're behind-the-scenes, behind-the-scenes, behind-the-scenes, a lot of what we do is secret. We're busy, but we can't advertise what we're working on right now. We can't tell people that we did such-and-such project because the XYZ company we worked for is doing something for ABC company" one with a well-known brand name, Vice President and co-owner Doug Niggemann said.

Surrounded by sons Tony and Christopher and co-owner Doug, John Demakis reminisced about the days when he and his then-partner Vince Sabella launched the company in the late 1970s.

The two started Alliance in a one-car garage in Elmwood Park, moved to a two-car garage, and eventually to the 30,000 square foot building they now occupy in far north suburban Wauconda.

The first service Demakis and Sabella offered was polishing.

As their customers conveyed to them other needs, Alliance added services. Meeting customer needs has opened the door time and time again to more work, more opportunities and growth for Alliance.

“Most of our customer base can use all the services we offer, and because we house so many different services, turnaround is faster,” Niggemann said. Their recent acquisition of a hot runner opened up a new base of customers.

Niggemann left his father’s mold making business to laser weld at Alliance after Demakis read about laser welding and invested in the new technology.

“When we started laser welding with Doug, a lot of people doubted whether it would work,” Demakis said. “We were one of the first in the Midwest that started with laser welding. Now it’s accepted standard.”

Demakis’ third son Christopher, who began in nickel plating, started working at Alliance after high school. He and his uncle now oversee the company’s polishing services.

“I grew up wanting to work in the shop,” Christopher said. He attended machine school, and learned polishing while working at the company. “I liked it,” he said, “but I really like just being in the company.”

Older son Tony had his first taste of the industry at the age of 10 when he was cutting the grass and sweeping the floors. After running a marketing and graphic design company for the past 13 years, he returned to Alliance. “There’s a need here to do more: for our customers, for our employees, and for the industry. The goal now is for greater exposure, so we’re getting more involved in the manufacturing community

in order to grow the brand,” he said.

Plastics molds for dispenser caps, medical devices and automotive parts are more in demand than ever. The heavy use of plastics molds demands the type of repair work Alliance does. Including its California branch, Alliance now employs 40 plus.

Like other manufacturers, the Demakis and Niggemann are looking for a new generation of workers to learn from the hard-to-replace longtime skilled specialists now in the Alliance team.

“Most of our work calls for specialized, hands-on skills,” Niggemann said. “We can’t send someone to a class to learn much of what we do. Much of our work is through microscopes in order to get it done right. So for the most part, we train internally.”

And while they’re dealing head on with challenges of finding new people while getting the word out about what they do, Alliance is sticking to the company’s basics: quality work, good service, and a valuable network.

“We’ve worked on relationships all our lives. Relationships are fine, but we also have to do a really good job. We’ve surrounded ourselves with really good people that do really great jobs that make us look good. I’m proud of the fact that we’ve built a great group of people here,” the elder Demakis said.

And, he emphasized, a great group of people that really know molds.

Find more about Alliance Specialties and Laser Sales at:
www.alliancelasersales.com.



The Alliance Team.

ARE YOU READY? RENEWED MANUFACTURING OPTIMISM MEANS MORE WORKFORCE TRAINING

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TMA's Vice-President of Education & Training Patrick Osborne is focused on keeping a step ahead of TMA members' training needs. TMA is in the process of developing its high-tech center for computer-related courses.

"The timing was right for 3D Die Design, so we offered that course this spring. We added a couple of classes, took away a couple," leaving about 130 students involved in training last year, Osborne said. Nearly 40 graduated from TMA's three-year Related Theory program in May.

High schools are ramping up their training in metal skills, he said. In this year's Precision Machining Competition, the number of participating high schools skyrocketed from nine to 19, bringing in projects from 300 participants.

"The interest in manufacturing training is growing. At the

high school level, metal programs are gaining attention again. We're involved in equipping those programs as much we can," Osborne said. "At the workforce training level, we're also seeing a growth in interest."

Manufacturing optimism calls for attention to workforce training

All of the renewed energy Osborne has seen in TMA training is tied back to manufacturers' positive outlook nationwide as they adapt once again to a growing economy after nearly a decade of stagnant or negative growth.

But there's a caution with the industry's good news:

"The optimism manufacturers feel in today's economy is warranted, but our report showcases several areas of vulnerability," Sikich's Murphy said. "From workforce development to technology to financial planning, manufacturers cannot afford to grow complacent in an increasingly competitive marketplace. The companies that stay ahead of industry trends and seek constant improvement will be the ones well-positioned to innovate and grow."

TMA stands ready to assist members in upgrading their workforce's skills.

To learn more about TMA's training courses, check out TMA's website www.tmaillinois.org or email education@tmaillinois.org for a current course catalogue.

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STUDENTS CONSIDER STEM CAREERS

ENCOURAGED BY CONGRESSMAN & WOMEN PROFESSIONALS



Illinois Congressman Randy Hultgren (far right) with 2017 STEM Scholar graduates.

As co-chairman of the U.S. House STEM Education Caucus, Illinois Congressman Randy Hultgren has a real interest in encouraging high school students to study science, technology, engineering and math.

As co-sponsor of the INSPIRE Women Act that became law in February 2017, he also sees the need to encourage women and girls towards careers in math, science and aerospace.

In July, Rep. Hultgren showcased those connected interests by hosting a “Women in STEM” panel discussion after celebrating his office’s first yearlong STEM Scholars program with a graduation ceremony at FONA International in Geneva, IL.

Among the women featured in the Women in STEM panel discussion were two representatives from TMA member Pioneer Service Inc.: President/Owner Aneesa Mathusa and Business Development Manager Rose of Sharon DeVos.

The all-female panel discussed how they were inspired to engage in STEM careers, what a typical workday looks like, how they expect their jobs to change over the next five years, how important mentorships are for growth, and more. Each one shared personal stories of overcoming obstacles and seizing opportunities, as well as how both men and women can support women in manufacturing.

“Things are changing ... women (and] millennials have to join,” TMA member Muthana told the program graduates and their families. “The culture that we have at my company is beyond just women, it’s beyond just making parts. It’s a family.”

Hultgren, whose 14th congressional district, includes several manufacturers and technology centers, said that it’s important to encourage the next generation’s interest in STEM opportunities.

“Hearing first-hand from STEM professionals who are innovating and leading in their fields helps encourage people to pursue their dreams—boys, girls and Members of Congress alike,” Hultgren said.

This past school year, Rep. Hultgren and the STEM Scholars worked alongside food flavoring professionals measuring chocolate syrup to see how it mixed and tasted differently with various types of milk, saw how a local business is partnering with NASA’s Space Launch System, experienced flight simulators at the DuPage County Airport and visited Chicago’s Digital Manufacturing and Design Innovation Institute Lab.

Rep. Hultgren’s office is now accepting applications from 14th District high schoolers for next year’s STEM Scholar program. Call (630) 584-2734 for more information.

COOK COUNTY “OPT-OUT” UPDATE

MINIMUM WAGE & PAID TIME OFF

Hours of effort on the part of concerned businesses and citizens led to a majority of Cook County municipalities “opting out” of the county’s mandate of \$13 per hour minimum wage and five days of paid time following a mere 120 days of employment.

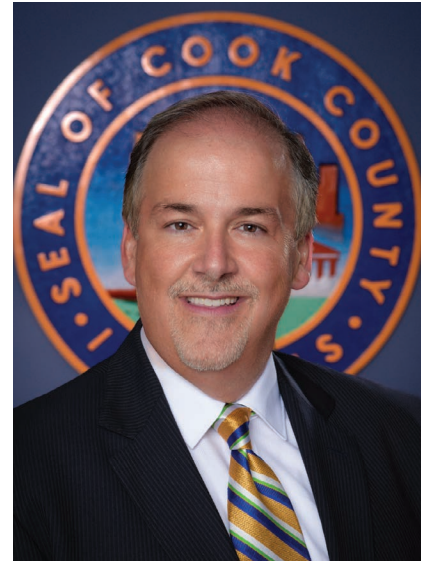
Tt last count, 109 of Cook County’s 132 municipalities rejected the directive.

The new regulations remain confusing, however, as employers are required to keep track of any time an employee may travel on duty in any of the municipalities that didn’t opt out. Time accumulated in those areas could lead to paid time off for that employee.

Home rule municipal councils may choose to reconsider their positions on the mandates in the future, and the state of Illinois is also considering similar legislation.

TMA launched a successful campaign to defeat these mandates in various municipalities. The TMA Government Relations team worked closely with Cook County Commissioner **Sean Morrison**, who visited TMA in March to make area manufacturers aware of the pending mandates.

TMA thanks members for their participation in their endeavor and their assistance in contacting local council members.



Cook County Commissioner Sean Morrison

BORDER ADJUSTMENT TAX TO BE DROPPED FROM REFORM PLAN

Those opposing the Border Adjustment Tax (BAT) appear to have won Round 1 in what may be an ongoing debate over whether and how imports should be taxed as they enter the United States.

White House and congressional leaders officially acknowledged the last week of July that the controversial tax on imports would not be included in this year’s tax reform proposals.

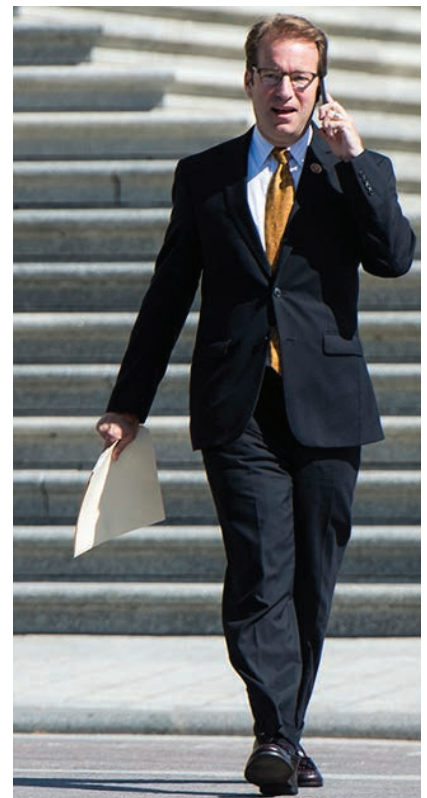
The May 2017 edition of TMA’s News Bulletin featured a debate as to whether the BAT would be good or bad for TMA members. For the most part, differing opinions form among manufacturers that import parts and those that do not.

Those companies that import parts for their products line up with retailers that would be impacted with higher fees on products made outside America. Those that support the border tax tend to be those that face competition from foreign providers.

Congressional leaders announced in late July that the BAT will be set aside for now. House Speaker Paul Ryan, House Ways and Means Chairman Kevin Brady, Treasury Secretary Steven Mnuchin, Senate Majority Leader Mitch McConnell, Senate Finance Committee Chairman Orrin Hatch and National economic Council Director Gary Cohn all agreed, leaving the BAT on the sideline this year.

“While we have debated the pro-growth benefits of border adjustability, we appreciate that there are many unknowns associated with and have decided to set this policy aside in order to advance tax reform,” the statement said.

There is a “viable approach” to ensure a level playing field between American and foreign companies and workers while protecting American jobs and the U.S. tax base without transitioning to a “new domestic consumption-based tax system,” the group said.



Illinois Congressman Peter Roskam is leading the fight for tax reform

WOMEN IN MANUFACTURING: CONFIDENCE, PARTNERSHIP, AND THE POWER OF PERSEVERANCE



Aneesa Muthana, President of Pioneer Service, Inc.

By Aneesa Muthana

It's been said women have an uphill battle in this industry. That they need to work harder for less money, that the machining industry treats women unfairly.

I had it easy.

I had mentors – supportive parents that kick started my interest in their trade and acted as role models. Father taught his trade to myself as well as my brothers. I watched my mother, who had no education and couldn't speak English, find a job as a factory worker. Her work ethic won her respect, and she received raises without even asking for them.

As I grew older, my father preferred me in the front office, but I wouldn't leave the shop. As a compromise, after I finished my daily office work, I could return to the machines. Dad knew this was the best deal he would get, so he put a speaker in the shop, and soon I was hurdling over bundles of metal to answer the phone.

So when people ask me how I was able to succeed as an outsider – a woman in manufacturing – it's because I watched my mother defy convention not with words, but with work(wo)manship. When Dad, who I love dearly, tried to move me into a more traditional woman's role, I chose compromise over defiance.

Was it unfair?

Probably. But if my mother could earn her coworkers' confidence with nothing but sweat and quality, then I knew I was capable of doing the same.

Spoiler alert: the world is unfair. Fate does not discriminate. It does, however, reward tenacity.

The problem with the "oppressive male regime" narrative is twofold. First, it creates an adversarial relationship that gets in the way of partnership. Second, it makes women into victims, reinforcing the sentiment they are doomed to fail.

I mentor women in manufacturing not because they're oppressed – many men are onboard with women in the workplace – but because the main ingredient in success is confidence and some women still lack it. Victimhood erodes confidence.

As a young woman of 23, fate came for me in the form of divorce. My uncle threw me a lifeline, offering me a position in his new small machining company. I was practiced in my field and had already spent years managing other businesses, so instead I offered to share leadership of Pioneer Service. He agreed. Not because I was a woman, not because I was his blood, but because I had already proven capable and I was eager to prove myself.

Almost 25 years later, I am President and owner. I owe it to my parents and my uncle, who showed me that men are not the enemy. Treat them like an enemy, and they will respond like one. Show them what you can do instead, and most men – most people – are smart enough to see you as an asset.

Fate owes you nothing. Earn your place and let the results speak for themselves – the world will take notice.

Aneesa Mathuna is President and Owner of Pioneer Service, Inc., a TMA member company. In 1993, Ms. Mathuna took the helm of a small, struggling motor-shaft manufacturing company and grew a stable business employing up to 50 people full-time. Used with permission.



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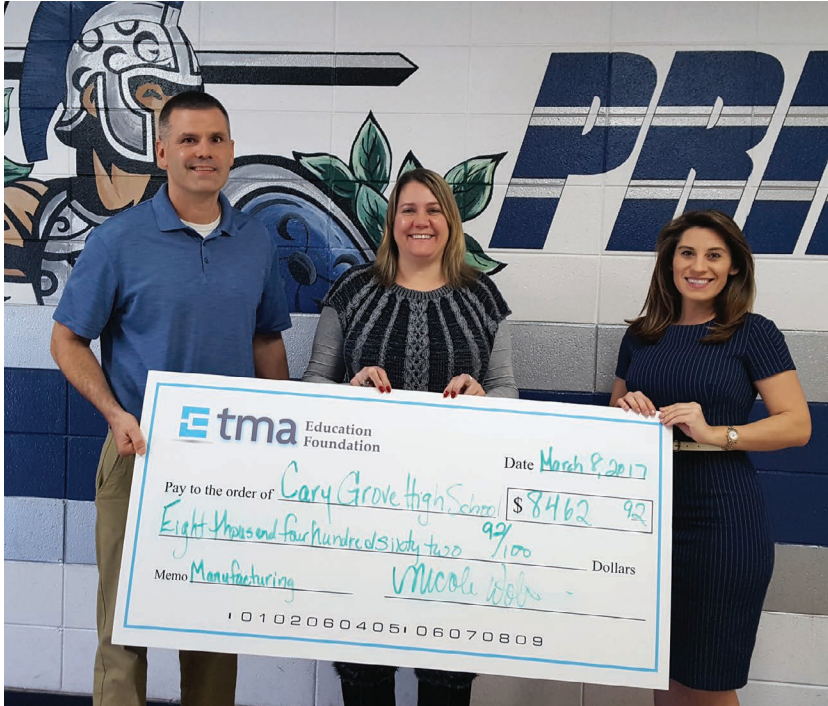
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TMA EDUCATION FOUNDATION INVESTS \$8,462 IN CARY GROVE HIGH SCHOOL



(L-R) Mike Manning, Industry & Careers Division Leader, Cary-Grove H.S., Rebecca Saffert, Vice Principal, Cary-Grove H.S., Nicole Wolter, President, H.M. Manufacturing, Inc.

As part of the \$165,000 granted to area high schools to update and expand the next generation's exposure to manufacturing, TMA's Education Foundation sent a check for \$8462.92 to Cary-Grove High School in 2017.

The funds were requested to buy an automatic tool changer and two digital readouts for the school's mills.

"We plan to use this machinery in our Metals II, Drafting II, and Engineering Design and Development courses," Michael Manning, Industry and Careers – Division Lead wrote in his request. "The tool changer will reduce setup time and allow students more time with the machine and less time setting up."

Education Foundation Board member Nicole Walter (Vice President of H.M. Manufacturing) delivered the check to the school.

The Foundation takes grants applications every year from October 1 to October 31. Application forms are available online at www.tmf.org.

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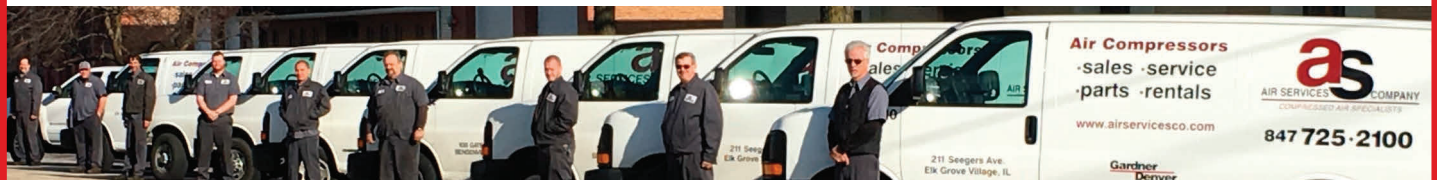


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TMA'S MANOR TOOL HOSTS COUNTY COMMISSIONER AND LOCAL MAYOR

When was the last time local elected officials paid a friendly visit to your company?

With the goal of acquainting local officials with the rewards and challenges of running a manufacturing business in Cook County, Manor Tool & Manufacturing President **Tom Simeone** welcomed Cook County 9th District Commissioner **Peter Sylvestri** and Schiller Park's new Mayor **Nick Caiafa** to his Schiller Park facility in June.

Simeone and Manor Tool Vice President **Ken Galeno** reviewed the company's history with the elected officials, discussing the difficulties of keeping up with government-imposed regulations, as well as the perils of the Cook County property tax system and Illinois' workers' compensation system.

The commissioner and mayor met Manor Tool employees as they learned about the products and services Manor Tool offers.

As Sylvestri and Caiafa wrapped up their visit, they each expressed a renewed appreciation for businesses in their districts such as Manor Tool that contribute to the community

by providing good-paying jobs and substantial value to the area's tax base.

Tom Simeone is active in TMA's Government Relations Committee.

If you'd like help in organizing a similar visit with local officials, TMA's Government Relations staff may be able to assist. Contact Dennis LaComb at dlacomb@tmaillinois.org for more information.



(L-R) Tom Simeone, Ken Galeno, Cook Co. Commissioner Peter Sylvestri, Schiller Park Mayor Nick Caiafa.

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AUGUST 23

Safety Peer Group

Join your TMA peers. This month's topic: Personal Protective Equipment (PPE) Hazard Assessments. Providing PPE is not enough. Learn about OSHA's expectations regarding PPE and how a Hazard Assessment is completed.

TIME: 11:30am - 1:30pm

COST: Free

LOCATION: Schaumburg, IL

AUGUST 25

Golf Outing - Cog Hill Country Club

Join fellow TMA members for the final golf outing of 2017 at Cog Hill Golf & Country Club. The outing includes 18 holes with cart, prizes for the top 25%, BBQ ribs and chicken lunch, contests and watering holes. Sponsorships available.

TIME: 8:00am sign-in

COST: \$165/Ind. | \$625/foursome

LOCATION: Lemont, IL

AUGUST 29

Northern Illinois Food Bank

TMA's Christians in Manufacturing are hosting their second annual volunteer event at the Northern Illinois Food Bank in Geneva, IL. Consider participating in a good cause with great friends and fellow TMA members.

TIME: 5:30pm - 8:30pm

COST: \$10 (includes pizza)

LOCATION: Geneva, IL

SEPTEMBER 8

Cybersecurity for Manufacturers: Develop Your Action Plan

The U.S. has lost more than 7 million manufacturing jobs since 2000 and are continuously challenged on how to stay competitive in our global economy. Join TMA and the Global Midwest Alliance to learn more about the latest in automation technology and to discuss the organization skills and resources necessary to acquire and implement them for growth and competitiveness.

TIME: 8:30am - 11:30am

COST: \$59

LOCATION: Schaumburg, IL

SEPTEMBER 14

Global Midwest Alliance Manufacturing Industry Event

The U.S. has lost more than 7 million manufacturing jobs since 2000 and are continuously challenged on how to stay competitive in our global economy. Join TMA and the Global Midwest Alliance to learn more about the latest in automation technology and to discuss the organization skills and resources necessary to acquire and implement them for growth and competitiveness.

TIME: 7:30am - 10:30am

COST: \$95

LOCATION: Rosemont, IL

SEPTEMBER 14

Lunch & Tour: Chicago Dryer

Chicago Dryer specializes in designing and building systems to separate, feed, dry, iron/finish, and fold washed sheets, pillowcases, and table linen, as well as tumble dried towels, blankets, patient gowns, scrubs, and specialty or luxury items.

TIME: 11:30am - 1:30pm

COST: \$35

LOCATION: Chicago, IL

SEPTEMBER 21

HR Peer Group

Jim Holmgren, IMAGE Program Coordinator, from the US Department of Homeland Security will discuss details on the new I-9 requirements and potential Immigration law changes. As the Government continues to work towards reform, it is important for the manufacturing community to stay well informed. Topics will include I-9 forms, e-verify, social security verification, document fraud, and more.

TIME: 8:00am - 10:00am

COST: Free

LOCATION: Schaumburg, IL

SEPTEMBER 21

Arlington Race Day Event

The Supplier Network Committee is hosting an afternoon at Arlington International Race Course. Join your peers for food, libations and premium seating at the top of the stretch.

TIME: 1:00pm - 4:00pm

COST: \$75

LOCATION: Arlington Heights, IL

OCTOBER 6

MFG Day

Host an MFGDay event! You'll help educate students, educators, businesspeople, media, and politicians about manufacturing careers and improve public perception of manufacturing. 84% of students who attended MFG Day events were more convinced that manufacturing provides careers that are interesting and rewarding.

LEARN MORE AT: www.mfgday.com

TELL US ABOUT IT: Let us know about your event by emailing dlacomb@tmailinoig.org

OCTOBER 24

Sales/Marketing & Financing Your Business for Growth

Join us for a morning seminar and learn how to grow your business. Hosted by the TMA Young Leader's, the Schaumburg Business Association, and the Chicago Metro Business Council, the program includes featured speakers Alex Goldfayn, Author, "Growing your Business by 15% in 15 minutes a Day", and Margaret Griffin, V.P., Business Development, SBA/USDA Lending, Huntington Bank

TIME: 7:30am - 10:30am

COST: \$25

LOCATION: Schaumburg, IL

tma | new members

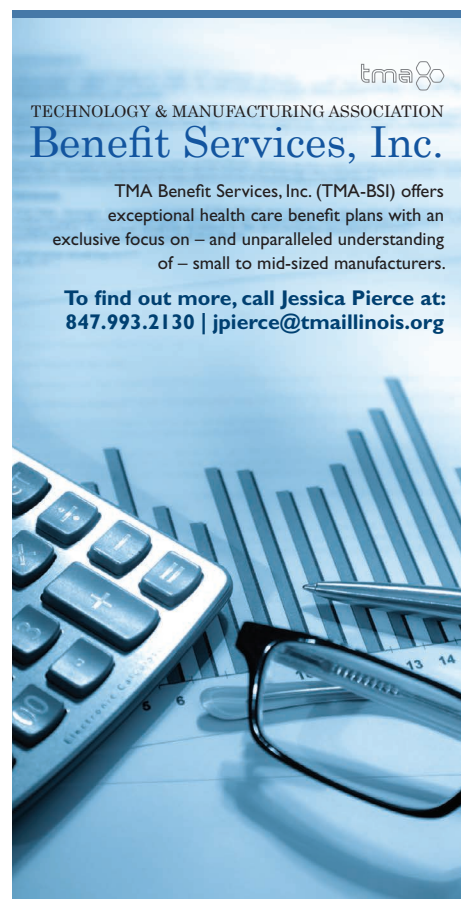
Art Technologies, Inc.
Bensenville, IL
www.art-tech.us

Creative Die Mold Corp.
Glendale Heights, IL
www.creativediemold.com

Engineered Plastics Systems, LLC
Elgin, IL
www.epsplasticlumber.com

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www.flex.com

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TECHNOLOGY & MANUFACTURING ASSOCIATION

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Manufacturing matters: The public's view of US manufacturing

Manufacturing is consistently recognized worldwide as one of the industries that contributes most to the economic prosperity of the United States. But what about Americans' interest in pursuing long-term careers in manufacturing? To explore this dilemma, The Manufacturing Institute and Deloitte conducted a survey of 1,030 Americans, and we're steadfast in their support of manufacturing. By leveraging these insights, US manufacturers gain opportunities to strengthen their workforce.

Americans value a strong manufacturing sector...



83%
believe manufacturing is important to America's economic prosperity



7 in 10
believe the US should invest more in manufacturing

Yet Americans are reluctant to choose careers in manufacturing

One-third of Americans would not encourage their children to pursue a manufacturing career



because...



77%
Worried about security and stability

70%
Not a strong career path

64%
Does not pay enough



67%
believe manufacturing jobs are interesting and rewarding



Yet **only half** believe a career in manufacturing provides good pay relative to other industries



Manufacturing

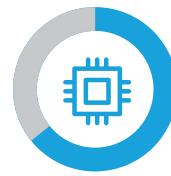
of a nation and its citizens. Why then are US manufacturers facing a gap—not only in finding the skills needed, but also in Deloitte have teamed up to conduct the 6th US Public Opinion of Manufacturing study. The study reveals Americans remain interest, support, and engagement in the US manufacturing industry.



invest
g

8 in 10 Americans

believe US manufacturing is important to maintain Americans' standard of living



64%

believe the US manufacturing industry is high-tech



Americans are optimistic about future manufacturing jobs, and believe perceptions can improve.



Americans believe future jobs will have better career prospects ...

88%

require higher level of tech expertise and skills

81%

cleaner and safer environments

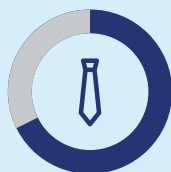
77%

more innovative

74%

more creative

Americans believe **targeted programs** would increase interest in manufacturing careers



67%

internships and apprenticeship programs



62%

manufacturing certification or degree programs



Those familiar with manufacturing are nearly

2X as likely

to encourage children to pursue a manufacturing career

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MANUFACTURING DAY 2017 | OCTOBER 6th

Developing positive perception of manufacturing with students

SOME DATA FROM STUDENTS WHO PARTICIPATED
IN LAST YEAR'S MFGDAY

88%

Activities/tours
were interesting
and engaging

89%

More aware of
manufacturing jobs
in my community

84%

More convinced
manufacturing
provides careers
that are interesting
and rewarding

64%

More motivated
to pursue a career
in manufacturing



Host a MFGDay Event at: www.mfgday.com