NTMA 2018:
A look at how far we've come...
A look at the year ahead.

Inside this issue

NEW NTMA SCHOLARSHIP:
Named in Honor of Long-Time Member p.3

2018:
The Year in Review pp. 14-15

FALL CONFERENCE:
A look at the 75th Anniversary Celebration pp.16-21

WE WOULD LIKE TO RECOGNIZE:
2018 Awards p.18
The Additive Manufacturing Workshop for Automotive
Get an exclusive look at how big automotive OEMs are integrating 3D printing into their production lines. This half day workshop, opens up the North American International Auto Show and includes access to the full NAIAS exhibit hall.

Visit additiveconference.com for program updates, show info and to get registered.

Presented by

AdditiveConference.com
In celebration of NTMA’s 75th Anniversary, the National Tooling & Machining Foundation is creating a named scholarship fund in honor of Roger J Sustar of Fredon Corporation. The new scholarship will benefit high school seniors that participate in the National Robotics League and are pursuing a post-secondary educational pathway toward a career in manufacturing.

Roger J. Sustar is the perfect example of the impact that one person can make by being a champion in closing the skills gap, and we are proud to name this scholarship fund in his honor. Through the Alliance for Working Together Foundation, Mr. Sustar has been a force in northeastern Ohio in building a consortium of manufacturing companies and community leaders to engage thousands of students in programs and activities that promote rewarding careers in manufacturing.

The NRL attracts smart, capable students who love to build things and solve problems. These are exactly the type of people who we hope will make up the next generation of manufacturing leaders. The Manufacturing’s Next Generation Scholarship.
I want to thank you for letting me spend the last part of your 75th anniversary year with you, what a grand adventure. This month we are going to recap what happened in 2018, and open the curtains a little on 2019.

2018 is the year of our members’ voices being heard by the staff of the national office. We heard you when you said that you felt there were too many events. We eliminated some of the ancillary events and focused our time and energy on the ones you like. Our events are a living being, one that can be crafted and changed to fit your needs to deliver compelling content. We heard you when you said that you don’t see or hear from national enough. Kelly LaMarca, James Mayer, and I will be extensively traveling each month in 2019, attending chapter events and touring your shops. We have worked a plan to ensure that each chapter is visited at least once during each year, and the personal communication from the membership team will fill in the months where there isn’t a physical presence. We heard you when you said that you want more defined value for your membership. I have constructed a team internally that has begun to define the value of membership. This team will provide a value proposition as well as marketing collateral that promotes this value.

When I think of what 2019 has in store, I am reminded of a quote from Brad Paisley, the country artist. He says “Tomorrow is the first blank page of a 365 page book. Write a good one.” Although there are only 258 business days in 2019, I assure you that our team is working for you 365 days. Our team is passionate. I need to remind some of them to stop working when I know they are at home with their families. We have spent a lot of time ensuring that we have the right people, in the right roles, reporting to the right managers.

In 2019, everything is designed to communicate and show the value of your membership in the NTMA. The events we have planned are intended to excite and stimulate you, stay tuned for the calendar. The content created by the Workforce Development Team is crafted to help you attract and retain good employees in your shop. The outreach from the membership team will be at an all-time high. The business development team is negotiating with affinity partners to drive down the costs of operating your business, and bringing on new National Associates that can help drive the total cost of ownership down to make your processes more efficient. Your national staff is prepared to make 2019 and our 76th year as an association an extremely beneficial year to our members! We covet your support and your ideas and your feedback!
Fund in honor of Roger J. Sustar will offer NRL students a powerful reason to choose a manufacturing focused education. Your generosity will enable us to ensure that these talented students stay in the pipeline. We will award this scholarship annually. It can be used...
WHAT ARE MEMBERS SAYING ABOUT NTMA EVENTS IN 2018?

In 2018, NTMA offered events from Florida to California. We featured topics from manufacturing excellence to sales techniques, international business to the future of our industry. We hope you had the opportunity to attend one of our signature conferences or round-tables. Here’s what members like you are saying about their experiences.

"THE MOST VALUABLE ASPECT OF THE EVENT WAS THE ROUNDTABLE DISCUSSIONS-- WHERE LEARNING IS HAPPENING."

Attendee at the 2018 Big Hairy Audacious Growth Conference

"THE ‘SOCIAL MEDIA AND ITS USE’ PRESENTATION BY CAITLIN ANDREWS WAS VERY INFORMATIVE AND A GREAT PRESENTATION. SHE GETS IT!"

John Lohse, Betar, 2018 Big Hairy Audacious Growth Conference

"I THOUGHT THE QUALITY OF THE SPEAKERS AND PRESENTERS AT THIS MEETING WERE VERY GOOD. NICE VARIETY OF PERSPECTIVES. ALSO ENJOYED THE SMALL GROUP WORK SESSIONS/INTERACTIVE FORMAT DURING THE HR SOLUTIONS SESSION WITH BRANDON DEMPSEY."

Andrea Wosel, C & R Manufacturing, 2018 Fall Conference

"THE MOST VALUABLE ASPECT OF THE EVENT WAS MEETING BUSINESS OWNERS AND UNDERSTANDING THEIR PAIN POINTS THAT I CAN ALSO RELATE TO."

Attendee at the 2018 Emerging Leaders Conference

"THE MOST VALUABLE ASPECT OF THE EVENT WAS HEARING OTHERS TROUBLES AND BEING ABLE TO SELF-REFLECT ON MY OWN ISSUES."

Doug Kuhn, Kuhn Tool & Die, 2018 Emerging Leaders Conference

2019 NATIONAL EVENTS

- January 30th - February 1st
  Chapter Leadership Summit
  Nashville, TN

- February 20th
  Top Shops Seminar (1)
  Dallas, TX

- March 6th - 9th
  The MFG Meeting
  Tucson, AZ

- March 31st - April 7th
  International Tech Tour
  Munich and Milan

- April 8th - 10th
  Legislative Conference
  Washington, D.C

- April 29th - May 1st
  Emerging Leaders Conference
  Louisville, KY

- May 17th - 18th
  NRL Competition
  California, PA

- May 22nd
  Top Shops Seminar (2)
  Phoenix, AZ

- August 21st
  Top Shops Seminar (3)
  Hartford, CT

- September 16th - 21st
  EMO
  Hannover, Germany

- October 15th - 18th
  Fall Conference
  Austin, TX

"I THOUGHT THE QUALITY OF THE SPEAKERS AND PRESENTERS AT THIS MEETING WERE VERY GOOD. NICE VARIETY OF PERSPECTIVES. ALSO ENJOYED THE SMALL GROUP WORK SESSIONS/INTERACTIVE FORMAT DURING THE HR SOLUTIONS SESSION WITH BRANDON DEMPSEY."

Andrea Wosel, C & R Manufacturing, 2018 Fall Conference
"SCHOLARSHIP" CONTINUED

for tuition, books or lab/course fees related to attaining a technical or engineering education. Eligible students are high school seniors that currently participate in the NRL program and will be pursuing degrees in advanced manufacturing and related fields at two- and four-year colleges.

For more information about how you can contribute, please contact Bill Padnos at: 216-264-2828 or bpadnos@ntma.org.

10-SECOND COLLET CHANGES

Royal Quick Grip™ CNC Collet Chucks set a new standard featuring superior design, incredible accuracy, and easy, 10-second collet changes.

Check out the Royal Quick-Grip™ Video at: colletchucks.com

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www.royalprod.com

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Ultra-Precision Accuracy
- Chuck and collets guaranteed to 0.0002" TIR or better
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Outstanding Grip Force
- Much greater than three-jaw chucks at high rpm
- Enables much more aggressive chip removal rates, resulting in shorter cycle times and increased throughput

Widest Gripping Range
- Full 0.062" grip range – 50% greater than the competition
- Parallel clamping collet segments remain in contact with the workpiece over their entire length for maximum holding power and accuracy
- Compensates for oversized or undersized bar stock

Most Compact Chucks in the Industry
- Ultra-compact lengths maximize z-axis capacity
- Super slim nose diameters provide outstanding tool clearance

Proudly Made in U.S.A.
LIMITED TIME OFFER: CHOOSE BIG KAISER & RAISE FUNDS FOR THE NRL!
Submitted by Gillian Campbell, BIG KAISER

Choose best-in-class cutting tools, tool holders and workholding products from BIG KAISER and support the National Robotics League at the same time. From November 1 to December 31, 2018, BIG KAISER will donate 2 percent of every order from an NTMA member company directly to the NRL.

“This is a way for us to support our customers and members in the NTMA, and to promote workforce development and STEM programs through the National Robotics League,” explains Chris Kaiser, President/CEO of BIG KAISER.

THERE IS NO ORDER MINIMUM OR MAXIMUM, AND ONLY TWO REQUIREMENTS:
1. When you place your order through your local distributor, request “drop-ship from BIG KAISER.”
2. Reference “BK-NRL” as a line item on your order so that every dollar counts toward the donation to NRL.

“We have helped many NTMA members reduce set ups and cycle times, improve part finishes, and reduce costs through longer tool life. We hope this year-end offer will encourage those who haven’t tried our products yet,” says Mr. Kaiser.

BIG KAISER offer nine products lines of precision tooling, workholding, and tool management systems aimed at reducing both the overall process time and the cost per part.

Popular products include face mill holders, end mill holders, collet chucks, angle heads and tapping adaptors. The world-leading KAISER Boring System, high performance Sphinx Drills and Unilock Workholding systems are also available, as are CAT, BT, HSK and Capto systems.

If your machine is equipped with a BIG-PLUS spindle, remember that BIG KAISER is the official licensed provider of BIG-PLUS tool holders in North America. Don’t accept any substitute “dual contact” products on your valuable machines!

View or download the latest product guide, or find your local distributor, at https://us.bigkaiser.com. Be sure to place your order before December 31, 2018 to benefit the NRL!

For more information, contact BIG KAISER, Hoffman Estates, IL at 224-770-2999, e-mail bigkaiser@us.bigkaiser.com or visit www.us.bigkaiser.com.

GROB SYSTEMS, INC.
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A promising future with the G-series
GROB 5-axis universal machining centers stand out thanks to their absolute precision and reliability in the automotive, aerospace, medical and mechanical engineering as well as tool and mold industries. The proven 5-axis simultaneous technology with horizontal spindle position enables you to machine parts of various sizes and materials in a flexible and failure-free way while offering maximum stability of the machine. Fast chip-to-chip times and the innovative further development of our spindle technology guarantee a high economic efficiency and productivity.

The GROB G-series – for the most versatile machining possibilities.
See you in Cleveland!

2019

PMTS 2019

SAVE THE DATE!
APRIL 2–4, 2019
CLEVELAND

PRESENTED BY:

CO-PRESENTED BY:
Take the payments, leave the hassle.

Keep your business moving forward toward a bigger and better future with payment processing services to fit your needs.
Suite of Payment Services

Protection like no other.
Here’s what confidence looks like: the most secure credit card processing method in the business backed by the most comprehensive breach warranty in the industry.

No hidden fees….ever.
All rates and fees are clearly identified on an easy-to-read statement. We never hide fees, so you know exactly what you’re being priced. Now that’s being transparent.

Solutions that fit like a glove.
You’re unique and so are your business needs. Our locally-based Relationship Managers are experts in getting to know you, so you always get the exact services that are vital to your business.

Problems are outta here.
When you have an issue, you need immediate access to a real person who never disconnects until your questions and problems are solved. Our U.S.-based service center is awaiting your call.

Get paid faster.
Forget waiting 30-days for your mobile payments to deposit. We fund our merchants’ mobile payments as if they are processing transactions in their store. We know the only thing better than making money is making money faster.

Integrate point-of-sale seamlessly.
Get the customized, versatile, comprehensive point-of-sale systems that grows with your business while also working easily with your other applications like payroll, marketing and loyalty programs.

Find those loyal to your business.
You can identify and connect with customers who will become your loyal brand base by using our cust-mized gift card and rewards/loyalty programs. With us, you can increase repeat sales and reduce payment fees.
As manufacturing technologies continue to evolve, staying competitive is a constant challenge. That’s what makes automation so appealing. Increased productivity, higher ROI, and decreased lead times are just a few of the benefits of automating—there are many more. At Okuma, we recognize the strategic opportunity that automation represents, which is why every Okuma machine is automation friendly. Let us help you find the solutions you need, so you can unlevel the playing field in your favor.

Okuma. Welcome to open possibilities.
HOW TO USE A NATIONAL ASSOCIATE IN YOUR SHOP

By James Mayer, Business Development Manager, NTMA

In the last two months, we have discussed who the National Associates are and what value they receive as a National Associate Member (NAM). This month we will explore the various ways that you can engage the NAMs and utilize them in your shops to realize the value that they bring to the association. From Heidenhain, Gisbert Ledvon shared, “We can provide unbiased advice about 5-axis machining and training possibilities for operations and programmers independent to the machine brand. We also can provide educational seminars at chapter meetings keeping members who cannot make it to the big NTMA meetings up to date on technology trends.” With the various areas that our NAMs can provide value, we may not always understand the best and most appropriate way to go about engaging with them.

In the software space of the NAM program, there are many providers. It’s also an area many members are interested in engaging with NAMs. From machine monitoring to ERP systems, CAD/CAM software to performance management, it is the second largest segment of National Associate Members. Graham Immerman from MachineMetrics said, “The best way to engage with our company is to let us help provide you visibility to what is happening on your shop floor. We can help you build a roadmap to continuous improvement by creating a starting point and continuing to uncover opportunities to improve your business.” MachineMetrics, along with other software providers that are NAMs, can bring value to you as members by helping you understand the issues that you have in your shop that you may not even realize. Many times, our members have profitable businesses, yet their machines are running at 25-30 percent of capacity. Jobs are getting out the door, so scheduling may not be an immediate concern.

As the liaison between the NAMs and you the members, it is my job to bring value to both groups. In 2019, I plan to travel and spend time with many of our members in various markets. I am currently building a process in which I can come to your shop and have a discussion with you and your management team about perceived bottlenecks in your processes, not only on the manufacturing side, but in your supply chain and office operations. From there I will engage the appropriate National Associate(s) to identify and provide solutions to help you optimize your business.

The National Associates are here to bring value to your company. Chris Kaiser of Big KAISER shared this thought with me, “We want to be a resource to members who are trying to solve problems or improve productivity in their machining operations. It doesn’t cost anything to ask us for advice and take advantage of our specialized experience in tooling, workholding and tool measurement systems.” The simple fact is that the National Associates may work for a workholding manufacturer, software company or heat treater, but they have experience with a multitude of issues that you come across every day, and they are more than willing to help you solve them.

If you want to discuss our National Associate Members, need contact information for them, or provide suggestions about who you would like to see as a National Associate, please do not hesitate to reach out to James Mayer: 216.264.2847 or jmayer@ntma.org.

“At Okuma, we realize that choosing the right partner and technology for a manufacturing operation is a critical decision. That’s why we’ve made it part of our company’s DNA to do more than just sell products; it is our goal to create customers for life. Our entire organization is focused on meeting customers where they are in their journey and partnering with them to create right-sized solutions for their operations both today and beyond. We do this by offering a broad product line of machine tools and systems; local, regional and global support by the best distribution network in the industry; and access to an extensive network of vetted partner technologies that integrate seamlessly into any operation. We believe that this expansive offering, coupled with the passion that we have for our customers and the industry, sets Okuma apart from other builders in the machine tool industry.”

Jim King, COO of Okuma

“Siemens is honored to provide NTMA members with guidance on latest technology direction to help Job Shops improve their efficiency and productivity by reducing cost and saving time in product design and the manufacturing process. No matter if this is related to basic or advanced 5-axis machining technology, automation integration, digitalization, cyber security or energy management, contact the dedicated expert team at Siemens to specifically serve Job Shops in the US at: www.linkedin.com/in/wolfgang-neitzke.”

Wolfgang Neitzke, Business Manager at Siemens

“Most Midaco customers are able to unlock untapped machining capacity with their new or existing machine tools when incorporating Midaco pallet systems. Many tasks that are currently internal processes, such as part loading and set up changeover, are currently carried while the spindle sits idle cutting into productivity and profits. That idle spindle time drastically drops when all part loading is done outside the machine tool while the machine is cutting. We are also seeing an increased need for CNC machine door automation whether a shop is adding their first collaborative robot or just trying to ease the work load on their employees. Automation the opening and closing of machine doors eliminates a redundant manual task. We are experts in this field and have a full line of Pallet Changers systems, Automatic Door Systems and Robot Access Doors. If your challenges involve increasing the productivity of a CNC, we can help.”

Mike Munao, Sales Manager for Midaco Corporation

“Adding an OMAX abrasive waterjet to your machine floor increases versatility, eliminates secondary machining, and speeds up production times. With the smartest software and the most efficient pumps, OMAX machines will grow your business by leveraging the benefits of waterjet technology.”

Stephen Bruner, Vice President of Marketing for OMAX

“Shoptech has over 8,000 shops across North America using an E2 product. Members looking for a shop management software package seeking help with job costing, job tracking, scheduling, and many other issues will find great value in our software E2 SHOP or E2 MFG. We would welcome a discovery call to see which product might be right for your shop and how Shoptech can help.”

Derrick Lambdin, Marketing Manager at Shoptech Software
In NTMA’s continued efforts to provide back office solutions to members, NTMA has expanded its partnership with CBIZ to provide a new 401K program designed to limit risk and fees while providing members and their employees a diverse menu of investment options.

In 2018, we began refreshing the courses to improve their production quality, and meet the needs of today’s learners.

The Franklin Partnership and the OneVoice initiative continued to be the strong voice of manufacturing in Washington, DC through advocacy for fair and transparent regulation. They provided critical information on the new tariffs imposed by the Trump administration in the spring and kept members in the know on the policy agendas of candidates across the country running up to the mid-term elections.

NTMA has trained more than 2,300 students! More than 100 have completed the full program - 700+ hours of content.

Successful international trip to JAPAN for the Japan Tour
Tech Tours at IMTS connecting members to international partners
In 2018, James Mayer was named National Account Manager at NTMA. He is responsible for identifying companies that can add value to precision manufacturers including associate member sales, sponsorships, and advertising.

James has worked in industrial distribution for the last 15 years, bringing industry experience. James is passionate about manufacturing and helping this industry thrive. He earned a BIS from Arizona State University with a focus in Business and Political Science, and an MBA from Ohio University.

NTMA is planning another series of "How to be a Top Shop" seminars for 2019, running up to the Top Shop Conference in September in Cincinnati.

The number of new companies that joined the NTMA in 2018, Congratulations to the Pittsburgh Chapter and San Francisco Bay Area tied for adding the most new members: 7.

Emerging Leaders Conference in Pittsburgh
and the
Emerging Leaders Roundtable in Nashville

2019 CONFERENCE
Louisville, KY
April 29 - May 1, 2019

NTMA continues to grow its partnership with Gardner Media and Modern Machine Shop Magazine. NTMA and its members participated in the "How to be a Top Shop" Seminars at IMTS in September.

Special thanks to Herb Homeyer for his 6 YEARS of service on the NTMA Executive Committee.
THANK YOU!

THANK YOU to the Rocky Mountain Chapter for the warm welcome to their city and Mike Hirsh and the rest of his team at Hirsh Precision for welcoming everyone to his shop for an amazing tour.
75TH ANNIVERSARY: A diamond anniversary is something to celebrate... and we did!
Fall Conference 2018: Event Highlights

**STAR CHAPERS**
1. Akron Chapter
2. Arizona Chapter
3. Boston Chapter
4. Cleveland Chapter
5. Connecticut Chapter
6. Indiana Chapter
7. Kansas City Chapter
8. Los Angeles Chapter
9. Michiana Chapter
10. North Texas Chapter
11. Northern Utah Chapter
12. Northwestern Pennsylvania Chapter
13. Pittsburgh Chapter
14. Rocky Mountain Chapter
15. Rock River Valley Chapter
16. St. Louis Chapter
17. Tri-State Tooling & Manufacturing Association Chapter
18. Western Massachusetts Chapter

**LIFETIME ACHIEVEMENT AWARD:**
Dave Tilstone

**EMERGING LEADERS AWARD:**
Horizon Award – Zac Overton, Overton Industries

**HONOR AWARD:**
Herb Homeyer, Homeyer Precision Manufacturing

**EMERGING LEADERS AWARD:**
Strategic Partner Award – CliftonLarsonAllen

**TEAM LEADERS AWARDS:**
Recognizing those who have completed their terms of service
- John Belzer
  Governance & Compliance Team, 2017-2018
- John Watkins
  Government Affairs Team, 2015-2018
- Gillen Young (pictured left)
  Manufacturing Technology Team, 2018

**6S AWARDS:**
- AccuRounds, Inc.
- Boston Centerless, Inc.
- Hirsh Precision Products, Inc.
- JD Machine
- Major Tool & Machine, Inc.
- Rosenberger North America (pictured right)

**CHAPTER AWARDS:**

**MOST IMPROVED CHAPTER**
Arizona Chapter

**CHAPTERS OF THE YEAR**
Connecticut Chapter & Northwest Pennsylvania Chapter

**WILLIAM E. HARDMAN AWARD:**
Mr. Robert Bonura

**DISTINGUISHED SERVICE AWARD:**
Noel Ginsburg

**EMERGING LEADERS AWARD:**
Horizon Award – Zac Overton, Overton Industries

**HONOR AWARD:**
Herb Homeyer, Homeyer Precision Manufacturing

**EMERGING LEADERS AWARD:**
Strategic Partner Award – CliftonLarsonAllen

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- Rosenberger North America (pictured right)
CORNHOLE TOURNAMENT: All in good fun - for a great cause: Manufacturing Education through the NRL.

CASINO NIGHT: Thursday evening brought Casino Night to Wynkoop Brewery to benefit the NTMA Government Affairs Administration Fund (GAAF).

IGNITE SESSIONS: Ignite sessions offer members multiple tracks designed to inspire. This year the focus: 6S/Lean, team engagement, utilizing data and the future of manufacturing.
**EMERGING LEADERS SESSION:**
Our Emerging Leaders are shaping tomorrow’s industry today.

**CHAPTER EXECUTIVE LUNCH:**
It was a session for brainstorming, problem solving and sharing—NTMA chapter execs are making things happen at the local level.

**BOARD OF TRUSTEES MEETING:**
The annual Board of Trustees meeting is always an important part of Fall Conference.

**CLOSING KEYNOTE:**
Words of wisdom from our speaker, Deborah Elam.
ANNIVERSARY GALA: It was a grand gala for a major milestone. The NTMA 75th Anniversary Gala welcomed guests to the blue carpet. The evening not only included all of the elegance of a ball, but also the opportunity to recognize those members who have been instrumental in making the NTMA strong.
It was a reception and registration wrapped in one! Attendees registered for Fall Conference sessions and events while networking with all the NTMA attendees.

COMPANIES IN ATTENDANCE RECEIVING AWARDS FOR THEIR ANNIVERSARIES

FOUNDING DELEGATES COMPLETING 75 YEARS OF MEMBERSHIP

Bachman Machine Company
St Louis, MO

Jergens, Inc.
Cleveland, OH

Ehrhardt Tool & Machine, LLC
Granite City, IL

Hobson & Motzer, Inc.
Durham, CT

Superior Die Set Corporation
Oak Creek, WI
Making Noteworthy Anniversaries

**75 YEARS**
- Bachman Machine Company
- Ehrhardt Tool & Machine LLC
- Holson & Motzer, Inc.
- Jergens, Inc.
- Superior Die Set Corporation

**65 YEARS**
- General Tool Company
- West Hartford Tool & Die Company

**60 YEARS**
- Criterion Tool & Die, Inc.

**50 YEARS**
- A. E. Machine Works, Inc.
- American Tool & Die, Inc.
- F.H. Peterson Machine Corp.
- Hamilton Mold & Machine, Inc.
- M & H Engineering Company, Inc.
- Right Tool & Die, Inc.
- Roberts Tool Company, Inc.
- Schaefer Technologies, Inc.

**45 YEARS**
- Ahaus Tool & Engineering, Inc.
- Bra-Vor Tool & Die Co., Inc.
- C & S Machine & Manufacturing Corp.
- Complexus Medical
- Custom Tool & Design, Inc.

**40 YEARS**
- Dadeks Machine Works Corporation
- Delltronics, Inc.
- Diemaster Tool & Mold, Inc.
- Five Star Tool Company, Inc.
- Kentucky Machine and Tool Company
- Layke Tool & Manufacturing, Inc.
- Micro Tool & Manufacturing, Inc.
- RIS Corporation
- Starm Tool & Manufacturing Company
- Superior Die Tool Machine Co.
- United Tool & Engineering, Inc.

**35 YEARS**
- Allied Tool & Die, Inc.

**40 YEARS**
- American Machine & Gundrilling Co., Inc.
- Automation Tool & Die, Inc.
- Cardinal Machine Company, Inc.
- Covent Technologies, Inc.
- Custom Group, Inc.
- Dynamic Machine & Fabrication Corp.
- Dysinger Incorporated
- Ephrata Precision Parts, Inc.
- Exact Tool & Die, Inc.
- Fairview Machine Company, Inc.
- Faith Tool & Manufacturing, Inc.
- RMI
- Springfield Tool & Die, Inc.
- Trotwood Corporation/Stryver Mfg.

**30 YEARS**
- Advance Manufacturing Corp.
- Advanced Machining Corporation
- Blandford Machine & Tool Co.
- Continental Precision, Inc.
- Die-Mension Corporation
- DPI Incorporated
- Fay & Quartermaine Machining Corp.
- G.B.E. Enterprises, Inc.
- J & F Machine Inc.
- Lampin Corporation
- Littlecrest Machine Shop, Inc.
- Machine Incorporated
- Path Technologies, Inc.

**25 YEARS**
- Bohler-Uddeholm North America
- CACO PACIFIC Corporation
- Costa Machine, Inc.
- Dan McEachern Company
- Gene’s Gundrilling Inc.
- Giordano, Inc. t/a Dial Machine Company
- Hi-Tech Machining & Engineering LLC
- Hydromat, Inc.
- Indiana Tool & Die Company, LLC
- J & J Tool Co., Inc.
- Jaco Engineering
- Lewis Machine and Tool Company
- Markham Machine Co. Inc.
- Meridian Industrial Group
- MVO USA, Inc.
- National Jet Company, Inc.
- Nemis Machine Co.
- Richard’s Grinding, Inc.
- Rockhill Machining Industries Inc.
- Rosenberger North America
- RRR Development Co., Inc.
- RTR Slotting & Machine, Inc.
- Tools, Inc.
- Weiss-Aug Co., Inc.

The NTMA greeted many members who were attending Fall Conference for the very first time — we look forward to seeing you next year!
When I think about 2018, it is very easy for my mind to wander to the NRL National Competition where a record 72 teams faced off in two days of fierce competition. Never before have I witnessed the amount of carnage inside the arenas as the students engaged in full contact innovation to determine who had the best bot. At various times during the competition, we had to stop the battles to fix the damage to the arenas that the bots inflicted on them.

In the end, the team from Pine Richland High School in the Pittsburgh area won first place and the Grand Champion awards. Not only did we see the best collection of bots battle in the arena, the teams also produced the highest quality ever of their engineering documentation. We had a record number of schools with perfect or near-perfect scores on their documentation binders. The students are not just building bots to battle, but understand the importance of documenting their work and displaying the project management skills that they have learned throughout the year.

However, I would like to focus this Year in Review article on saluting the hard work and determination of champions in Houston, Denver, Philadelphia, Sacramento and Nashville that are dedicating their valuable time to starting NRL programs in their communities. These champions have been working to recruit schools, manufacturing companies and community leaders to join with them in engaging manufacturing’s next generation. I am so proud to be able to support their efforts and look forward to seeing the fruits of the labor in spring of 2019.

I also want to recognize the companies that understand how valuable the NRL is to the future of manufacturing. Aerotek has been a force in helping to start new NRL programs throughout the country. alliantgroup has taken the charge to lead the Houston NRL program and is sponsoring the first ever NRL Innovation Award. Mastercam is at the forefront in providing their software to the schools while Paulo is always willing to educate students about heat treating. I cannot forget the generosity of Big KAISER and their support of our program through their yearly NRL
promo along with the annual support that we receive from Grainger. In addition, I need to give a huge thank you to Tormach for their willingness to support my dream of raffling off a CNC machine to donate to a local school. Congrats to John Belzer for winning the raffle and being a hero to a local school in Southern California.

The NTMF provided us with the financial resources to continue our NRL expansion program and support local regional programs. The foundation made it possible for us to engage with manufacturing communities across the country and spread the word about the NRL program. We were also able to connect with other manufacturing and non-profit organizations to create partnerships and provide more opportunities for youth to connect to careers in industry. The National Network granted the NRL with the necessary funds to contract with the Entertainment Technology Center at Carnegie Mellon University to create an augmented video game so middle school students could have a taste of what the NRL program is all about. Check back here next year for more information about the game.

Most of all, I want to acknowledge the hundreds of NTMA member companies that are supporting the NRL program by being an industry advisor, competition volunteer or serving in a leadership role. Without your direct engagement, we would not have an NRL program and students in the workforce pipeline. Steve Tamasi of Boston Centerless serves as the chairman of the NTMA Workforce Development Board. He has such a passion for the NRL program and ensuring that there is a future manufacturing workforce. Steve’s drive resulted in the best and most productive strategic planning session by a board of directors that I have ever been a part of in my 20-plus years of non-project work.

I apologize to anyone that I might have missed during this recap. There was too much to report about the NRL program and my first year as the full time Director of Youth Engagement for NTMA. I cannot wait for 2019 and all of the amazing things to come for the NRL program. Each year, this program is growing and connecting more students to careers in manufacturing. Who can’t get excited about that?
There was a frenzy of activity this year in terms of workforce development. I am proud of so many achievements and decisions this year, and they are all thanks to you, our members! We received approval to being the much-anticipated NTMA-U Refresh project – starting with the Basic Math course in Series 1. We launched a pre-apprenticeship program, with new hands-on activities. We deepened our partnership with NCATC, the Center for America, and many other groups that focus on growing our future workforce. I also had the opportunity to visit member shops and educational institutions around the country, to see innovative practices and meet engaged leaders first-hand.

The NTMA-U Refresh project is a big deal. The NTMA-U program spans the core competencies for machining and tool and die occupations, and is over 700 hours of content. Building the program was a labor of love earlier this decade, with input, feedback and guidance from members around the country. As you know, technology, processes and needs never stop changing. So, it was time to start re-investing in NTMA-U to improve its production quality. The Basic Math course covers arithmetic, fractions, decimals, conversions, geometry and trigonometry. The Education Team provided invaluable feedback on new narrator choices, new course layouts and templates and the alpha versions of the new programmed sections. I personally developed a 91-page storyboard for the course with updated narration and images, all with the goal of improving the clarity and quality of the course, along with clearer alignment with NIMS competencies. Our vendor, Cinécraft, is delivering on-time and on-budget. We plan to launch the new version of the Basic Math course early in 2019 through our main portal – and we’ll roll it out to chapter, member and other portals on an agreed-upon timeline. Thank you to everyone involved! If you’d like to contribute towards the funds required for the next courses, please contact me at sschroeder@ntma.org.

The pre-apprenticeship program is incredibly popular already! This program was developed in large part by Scott Covert, the Training Coordinator at Penn United Technologies, Inc. and our Education Team leader. It includes access to five NTMA-U courses – basic math, basic blueprint reading, precision machining technology, quality / SPC / inspection and a new mini-CNC course. It also includes all the relevant textbook pages and new hands-on activities using blueprint blocks and a piece designed for precision measuring exercises. The package comes with either the prints to machine or 3D print the components, or the physical parts themselves. We also are working with Grainger, our main affinity program partner to provide a 3-piece kit for students – a fractional and decimal scale, calipers and a micrometer, at an affordable price. Five GoToMeetings were held in November to introduce the program, and you can contact me for information at any time! This program is designed to be used at companies and at schools to introduce people of all ages to our amazing industries – and start them on a great path towards a career with great pay and exciting opportunities.

We also presented at the 30th annual NCATC conference to a group of educators in the community college / technical college sector about the NRL program, NTMA-U courses and our new initiatives. We led workforce development business solutions sessions at the Fall Conference that were extremely well-received, along with an IGNITE! Session on team engagement, and more. We had 20 people attend our Education Team meeting live in Denver – they got to preview the basic math course refresh, and get their hands on the parts that go along with the pre-apprenticeship program. I also got the opportunity to visit shops from Ohio to Pennsylvania to Colorado and more – and I have shared, and will continue to share best practices with all of you.

I am so thankful for you – our engaged, thoughtful and persistent members! You understand that manufacturing is the growth engine of the US economy, and you’re working with your local schools, community organizations, chapters and your national NTMA team to drive the right programs and awareness about our amazing industries!

Thank you for a great 2018 – and I can’t wait to see what 2019 brings.
In celebration of National Apprenticeship Week in November, the Northwestern Pennsylvania Chapter recognized member companies who have active apprenticeship programs. Their dedication to training paves the way for the future of our trade!

The NWPA Chapter Group Apprenticeship Program* has grown from four to 15 in 2018 with 13 tool maker apprentices and two CNC machinist apprentices. The NWPA Chapter NTMA Group Apprenticeship Program includes tool maker (die or mold) or machinist (CNC) apprenticeships. The Programs were approved by the Pennsylvania Apprenticeship and Training Council in September 2016. This allows the NWPA Chapter to serve as the sponsor for the program and liaison to the state. Member companies may sign an Employer Acceptance Agreement committing to employ the apprentice and provide the on the job training requirements.

Partners in the NWPA Chapter Program include: Coinco Inc., Custom Tool & Design Inc., Marlan Tool, Inc., Shorts Tool & Manufacturing Inc., CK Tool & Die, Inc., Offi Tool & Die, Starn Tool & Manufacturing Company, NuTec Tooling Systems, Leech Industries, Inc., Area Tool and Manufacturing Inc. Many thanks to these companies as well as all member companies who have maintained their own apprenticeship and training programs. We appreciate your devotion to actively building our future workforce.


For more information about the NWPA Chapter Group Apprenticeship Program, please contact Tami Adams at tadams@nwpa-ntma.com or (814)720-0094.
The Board of Trustees, Executive Committee, and staff of the National Tooling and Machining Association would like to wish you and yours a wonderful holiday season.

We thank you for your membership as well as your contributions of time and talent in 2018.

Our gift to you in the new year: a renewed commitment to serving our members and building strong businesses and a strong industry - together.