

Refocus. Reinvent. Refine



April 16 - 18
Huntington Cleveland
Convention Center

Cleveland,OH





Keynote Speaker MARK MAYFIELD Find Your Day

Perspective. It's a key to survival. And during times like these, when the challenges of the pandemic seem never — ending, perspective is vital for our personal well-being. In this inspiring AND hilarious presentation, Mark will discuss his personal experience with gaining perspective during difficult times, while providing attendees with valuable insights and skills on coping and thriving. Frustration, anxiety, and depression are the new pandemic variants. Mark will give you skills to manage your mental health and reset your baseline for happiness and success. He will help you "Find Your Day!"



Message from the Chair

On behalf of the Technical Programs Committee, I'd like to invite you to PMPA's National Technical Conference 2023. Our theme is Refocus, Reinvent and Refine. The committee has worked diligently to develop a schedule filled with topics which will help your precision machining shops adapt and thrive in today's economy and workplace culture. Even our schedule is structured to help you refocus and refine. We have four tracks — Fundamentals, Mastery, Management and Job Layout - which will help you decide if the session is at your experience level. We also have noted the job functions which would benefit from each session, so nobody's time is wasted. We want this conference to be filled with ideas, problem-solving and networking. At PMPA, we are all better together.

We look forward to seeing you in Cleveland!

Clay Schalk, Chairman 2023 National Technical Conference

2023 PMPA National Technical Conference Refocus. Reinvent. Refine.

April 16-18, 2023 | Huntington Cleveland Convention Center | Cleveland, OH

Fundamentals Track

Mastery Track

Meetings on Sunday 9:00a-10:00a Technical Program Committee 10:00a-11:00a Technical Member Meeting 11:00a-11:30a First Timers' Meeting

Management Track

Job Layout

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SUNDAY, APRIL 16						
	Ballroom	Star CNC	Champion Screw	26C	M&M Grinding	
12:00p-1:30p	Keynote Lunch Mark Mayfield					
BLOCK 1 1:45p-3:15p		Cobots in the Workplace Courtney Ortner	Advantages of Cam Brett May	Coolants vs. Oil John Wiley	Swiss Print	
BLOCK 2 3:30p-5:00p		Hidden Value in Your Data Rich Henning	Do We Need Ground Barstock for Swiss? Rick Bauer, Ed Garber, Aneesa Muthana	Surface Improvement by Mass Finishing Jeff Bell	Cam (6/8 spindle) Print	
5:00p-6:15p	Welcome Reception					
MONDAY, APRIL 17						
	Ballroom	Star CNC	Champion Screw	26C	M&M Grinding	
7:30a-8:30a	Breakfast				,	
BLOCK 3 8:45a-10:15a		Workforce Development: Youth in Manufacturing Bill Cox, Robin Rutschilling	ID Issues: Small/ Large Hole Drilling John Kiffner, Clive Komlenic	Macros: Best Practices Giovanni Lucas, John Reis	Designing Tools for Quality Quality Committee	
BLOCK 4 10:30a-12:00p		Why/When/Where of Custom Tooling Kevin Johnson, Peter Stechow	Lightly Attended Mike Petrusch	GD&T Fundamentals Gary Griffith	CNC Multi-Function Print	
12:15p-1:30p	Awards Lunch					
BLOCK 5 1:45p-3:15p		CNC Swiss Focus Intermediate Derek Briggs	Rapid Fire Technology IT Committee	GD&T Advanced Gary Griffith	Cam (5-spindle) Print	
BLOCK 6 3:30p-5:00p		CNC Swiss Focus Advanced Derek Briggs	Continuous Improvement Panel Dan Ignasiak, Aneesa Muthana, Michael Tamasi	Shop Efficiency on Cam: Lessons Learned Brad Eichman, Johnny Freeze	Escape Room	
5:00p - 6:15p	Reception					
6:30p	Women of PMP	A Dinner (off site)				
TUESDAY. APRIL 18						
	Ballroom	Star CNC	Champion Screw	26C	M&M Grinding	
7:00a-8:00a	Breakfast					
BLOCK 7 8:15a-9:15a		Safety: What You Need to Know Miles Free	3D Printing Matt Dowell	NIST: Cybersecurity Bob Duffy		
BLOCK 8 9:30a-10:30a		How to Read a Chip Miles Free	Rotary Transfer Pros & Cons Brandon Buckhout, John Habe IV, John Pollihan	OSHA: Latest Updates Dan O'Brien		

April 16-18, 2023 Huntington Convention Center | Cleveland, OH

ПІТ

Who Should Attend on Upper Management FL Foreman/Leadman EE Estimator/Engineer Q Quality

Each session indicates who would benefit from the session and experience track.

Operator

BETTER TOGETHER Social Events

First Timers' Meeting Sunday, April 16 at 11:00am

The Technical Programs Committee invites all National Technical Conference first timers to learn the best ways to take advantage of the conference and PMPA membership.

Keynote Lunch, Mark Mayfield

Sponsored by Hydromat Sunday, April 16 at 12:00pm

Gain perspective during difficult times, and learn valuable insights and skills on coping and thriving.

Welcome Reception

Sponsored by Hydromat Sunday, April 16 at 5:00pm

The perfect opportunity to network, discuss the conference, and relax. Don't forget your drink tickets!

Buffet Breakfasts

Monday, April 17 at 7:30am Tuesday, April 18 at 7:00am

Start your mornings right with a full, hot breakfast.

Awards Lunch

Sponsored by Absolute Machine Tools, Inc. Monday, April 17 at 12:15pm

Celebrate fellow members as PMPA recognizes Technical Member Participation Award winners and meeting pin recipients while enjoying a delicious lunch.

Reception

Sponsored by Paperless Parts Monday, April 17 at 5:00pm

The perfect opportunity to network, discuss the conference, and relax.

Women of PMPA Dinner

Monday, April 17 at 6:30pm

All women of PMPA are invited to dinner: members, spouses, friends.

BLOCK 1 | SUNDAY

MM Middle Management SM Setup/Machinist

1:45pm - 3:15pm

Cobots in the Workplace

Courtney Ortner, Absolute Machine Tools **Mastery Track**











A cobot is a robot designed to assist employees, not replace them. Learn how cobots benefit precision machining shops. A cobot will be in the room!

Advantages of Cam

Brett May, BME, Inc. **Mastery Track**











Improve the understanding of cam layouts, tooling opportunities and synergies of combined operations by your attendees to give them valuable and actionable insights into improving profitability by get-ting to "yes" on quotes for your high-volume, high-demand & customers.

Coolants vs. Oil

John Wiley, QualChem, Inc. **Fundamentals Track**













Metalworking fluids are an important factor in your shop's production operations. Understanding the differences between coolants and oils, as well as the importance of factors such as filtration. viscosity will be explained. Choosing fluids to assure suitability for various materials and processes with practical tips for best results.

Swiss

Job Layout Session











This roundtable session will discuss the challenges of a specific Swiss part and the many ways to consider those challenges from both an engineering and operator standpoint.

BLOCK 2 | SUNDAY

3:30pm - 5:00pm

Hidden Value in Your Data

Rich Henning, Henning Industrial Software Inc. **Fundamentals Track**





You can have all the data in the world, but it's useless if you're unable to make decisions that can have a measurable impact from it. In this session, we will review different data capture techniques to collect departmental data. We will then review ways to turn this raw data into actionable information to support continuous operational improvement.

Do We Need Ground Barstock for Swiss?

Rick Bauer, Edge Technologies Ed Garber, Star CNC Machine Tool Corp. Aneesa Muthana, M&M Quality Grinding Inc.

Management Track













Discover why the value precision-ground barstock far exceeds its cost when compared to cold-finished. Superior quality. and higher output only begin to highlight why precision-ground nearly pays for itself, and then some.

Surface Improvement by Mass Finishing Jeff Bell, Precision Finishing,Inc.

Mastery Track







Deburring, improving surface texture, even dimensional control often require a final value-added step on the most challenging parts that we produce. Jeff Bell from Precision Finishing, Inc. will walk us through the various aspects of mass finishing, giving us an understanding of the types of process, media, and other factors employed to achieve our customer's most demanding requirements.

Cam (6/8 spindle)













This session is focused on providing an overview of multi spindle cam technology and how it can best be utilized in your shop. The discussion will review the wide range of parts that can be run on this technology and the new/unique ways to take advantage of the machine capabili-



Block 3 | Monday

8:45am - 10:15am

Workforce Development: Youth in Manufacturing

Bill Cox, Cox Manufacturing Company Robin Rutschilling, Clippard Instrument Laboratory, Inc.

Management Track



Gone are the days of needing laborers or 'warm bodies' in our precision machining shops. In this session, Bill Cox and Robin Rutschilling will explain how they have reframed the workforce issue to talent and making a career in manufacturing appeal to young talent. Come hear their proven ideas for training and retaining the talent that drives our shop's success regardless of generation.

ID Issues: Small/Large Hole Drilling

John Kiffner, Mikron Group Clive Komlenic, GWS Tool Group

Fundamental Track







What are the keys to successful drilling? Learn different drilling applications to expose processing tips to be successful.

Macros: Best Practices

Giovanni Lucas, Star CNC Machine Tool Corp. John Reis, Star CNC Machine Tool Corp. **Mastery Track**







Simplify your operator's and engineer's jobs by using macros.

Designing Tools for Quality

Quality Committee Martin Baumgardner, Precision Plus, Inc. Lisa Carrothers, H & R Screw Machine Products, Inc. Justin Zak, Corey Steel Company Michael Devoss, Marcegaglia Stainless Richbura, LLC

Johnny Freeze, GWS Tool Group Ron Herrera, Erie Specialty Products, Inc. Ray Schnell, Valbruna Stainless Inc.

Fundamental Track







Learn to reduce risk of bad parts, complicated setups, time spent on checking/ gaging and simplify the quality process. Rethink tooling and make the process work for you.

Block 4 | Monday

10:30am - 12:00pm

Why/When/Where of Custom Tooling

Kevin Johnson, Fischer Special Tooling Peter Stechow, Fischer Special Tooling **Mastery Track**









Shop resources are scarce and cost must absolutely be minimized. However, challenging combinations of geometries, features, and difficult to machine materials often demand a custom tooling solution if your shop is to quote competitively. This session will help you reframe your thinking on custom tooling from "expensive luxury" to "competitive advantage" by learning more about the tooling, coatings and possibilities now available.

Lightly Attended

Mike Petrusch, Cox Manufacturing Company **Management Track**









Lights out manufacturing is a misnomer but lightly attended machining is a proven way to increase production, profitability, and reduce lead times. Join Mike Petrusch to learn current best practices for lightly attended machining that you can apply in your operations.

GD&T Fundamentals

Gary Griffith, Griffith Training **Fundamentals Track**









This session will cover datums and datum simulators. It will also cover example of all of the functional symbols: Flatness, Straightness, Circularity, Cylindricity, Parallelism, Perpendicularity, Angularity, Circular Runout, Total Runout, Profile of a Line, Profile of a Surface, and Position.

CNC Multi-Function Job Layout Session

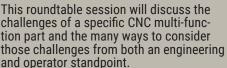












Block 5 | Monday

1:45pm - 3:15pm

CNC Swiss Focus Intermediate

Derek Briggs, Tsugami America Mastery Track





This session will focus on fundamentals of Swiss – type machining, the capabilities that set Swiss apart from standard lathes, and common misunderstandings when transitioning from standard lathe machining to Swiss machining.

Rapid Fire Technology

(IT Committee)

Bridget Casey, Bracalente Manufacturing Stephanie Doerfert, Mantel Machine Products Missy Gedridge, EMC Precision Dave Seabrook, Micron Manufacturing David Wynn, PMPA

Fundamentals Track











The PMPA Information Technology Committee will be discussing myriad technology solutions such as various CAD softwares, safety suites, password management tools, shop productivity tools, shop simplification technology, communication tools, Higher Logic, lean software and more!

GD&T Fundamentals

Gary Griffith, Griffith Training **Mastery Track**









This session is focused on advanced principles which include Maximum Material Boundary (MMB), Actual Envelope (AME), Best Fit, and Datum Shift.

Cam (5+ Spindle) Job Layout Session











This roundtable session will discuss the challenges of a specific cam 5+ spindle part and the many ways to consider those challenges from both an engineering and operator standpoint.



Each session indicates who would benefit Middle Management Setup/Machinist

Who Should Attend W Upper Management FL Foreman/Leadman E Estimator/Engineer Operator 0

Q Quality

S Sales

Block 6 | Monday 3:30pm - 5:00pm

CNC Swiss Focus Advanced Derek Briggs, Tsugami America **Mastery Track**







This session will focus on multipath control capabilities (composite, superimposition, and synchronization controls) and the utilization of these functions to increase productivity and reduce cycle times.

Shop Efficiency on Cam: Lessons Learned

Brad Eichman, Gray Defined Engineering Johnny Freeze, GŴS Tool

Mastery Track





Become more efficient with your cam machines. In this session you will learn how to develop the machine set-up, stock-up/stock-depletion, tooling and overall processing of your product from a cam machine prospective. Produce more in the same amount of time by optimizing the beautiful and un-replaceable cam

Continuous Improvement

Dan Ignasiak, SEPCO Erie Aneesa Muthana, Pioneer Service Inc. Michael Tamasi, AccuRounds **Management Track**







Panelists discuss progress in the last year and plans for the future.

Escape Room Fundamentals Track













Solve puzzles and find the clues while working with others from your industry!

Sponsorships Available!

Contact Bryce Ellis to lock in your sponsorships today! bellis@gardnerweb.com 630-345-3466

Block 7 | Tuesday

8:15am - 9:15am

Safety: What You Need to Know

Miles Free, PMPA

Fundamentals Track





This session will look at some of the foundational 'facts and knowledge' that are the basis for our success- but often ignored in our operations. Why are barstock tolerances always negative? What does the choice of certain materials mean to the operator, to profitability? Is straightness arithmetic or geometric, and why does it matter? Learn about the underlying and unconsidered truths shaping our industry and your day at work. Employ your new understanding to improve profitability and reduce waste.

3D Printing

Matt Dowell, Precision Plus, Inc. **Mastery Track**

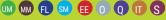












Different 3D printing technologies will be discussed at a high level overview, and we'll show how their use can complement (not replace!) the precision components we make on a daily basis. Learn which technologies you should contract out as well as which ones you can easily bring into your factory. From there we will dive deep into the technicalities of the FDM and SLA processes such as selecting your first machine, material options, preparing for a print, and post-processing of the printed parts.

NIST: Cybersecurity

Bob Duffy, SSE

Management Track





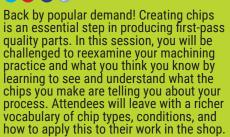
Is your business compliant with NIST 800-171 and ready for CMMC implementation? protect your business and keep (and grow) DoĎ manufacturing \$!! DoĎ contractors are running out of time to plan and prepare for the implementation of CMMC requirements in 2023. In addition, the DoD is stepping up its efforts to verify compliance with existing NIST 800-171 requirements NOW.

Block 8 | Tuesday

9:30am - 10:30am

How to Read a Chip Miles Free, PMPA





Rotary Transfer Pros & Cons

Brandon Buckhout, R. F. Mau Co. John Habe, Metal Seal Precision Ltd. John Pollihan, Component Bar Products, LLC

Management Track







This session will review the rotary transfer machining basics. It will help to identify what makes a good rotary transfer part with examples processed using CNC and traditional rotary transfer machines.

OSHA: Latest Updates

Dan O'Brien, Fisher Phillips

Management Track



Dan O'Brien from Fisher Phillips will give attendees actionable understanding so they can reduce risks from OSHA in the coming year, what triggers an OSHA inspection and what targets will OSHA focus on in 2023? What should you already have prepared BEFORE ÓSHA arrives? How to handle the OSHA visit Manage the initial contact, what to expect and how to get best results from opening conference and control the inspection. How to handle post-inspection matters. Optimizing every step of the OSHA "transaction" is the best way to minimize risk and avoid having to optimize a settlement during unneeded and expensive litigation.



CONFERENCE FEES

Registration Deadline: APRIL 3, 2023

Registration includes registration to PMTS so no need to wait in line for your PMTS badge.

First Attendee \$ 575

Each Additional Attendee \$ 375

TRAVEL

The Huntington Convention Center of Cleveland is a convention center located in downtown Cleveland, Ohio, which is approximately 15 minutes from the Cleveland Hopkins International Airport.

Parking is more convenient than ever with a direct connection to the 1,200-spot Huntington Park Garage. Attendees can comfortably find the entrance through the enclosed walkway leading to the Hilton Cleveland Downtown and Center connector. The garage entrance is located on the North side of Lakeside Avenue (opposite to the Hilton) and payment stations are near the walkway entrance doors or at the W. 3rd Street exit gate. The direct walkway connector is accessible on the ground floor of the garage, through the marked doors reading 'Convention Center, Hilton Hotel, and Global Center'.

CANCELLATION POLICY

Meeting registration fees will be refunded in full if cancellations are received by 5:00pm (EST) on April 3, 2023. Fees for cancellations after April 3, 2023 cannot be refunded, but substitutions are permited and encouraged.

REGISTRATION

Registration must be online at pmpa.org/techconf to use credit card.

Send completed registration form with check made out to PMPA to:

PMPA

6880 W. Snowville Rd #200 Brecksville, Ohio 44141



For security reasons, we can no longer accept credit card payments via phone, email or fax.

HOTELS

Reservation Deadline: MARCH 22, 2023

Reservations for PMPA block* are made through Destination Cleveland (Housing Bureau)



*This is the same block for PMTS so you can get your rooms for both events at the same time.

Reserve online at PMPA.org/techconf

The Westin Cleveland Downtown

777 Saint Clair Ave, NE | Cleveland, OH 44114 \$199 per night (single/double)

Drury Plaza Hotel Downtown

1380 East 6th St | Cleveland, OH 44114 \$174 per night

Hilton Cleveland Downtown

100 Lakeside Avenue East | Cleveland, OH 44114 \$209/night (single & double)

Cleveland Key Tower Marriott

1360 W Mall Dr | Cleveland, OH 44114 \$199 per night



Registration Form

COMPANY INFORMATION

Company Name			
Address —			
City —	State	Zip/Postal —————	Phone
	FIRST ATT	ENDEE \$575	
Name			
Badge Name (if different than	above)		
Is this your first or second Na	tional Technical Conference?Yes	-1stYes-2ndNo	
Please check one	option from each block. Please check !	Mentor Table for Print sessions if c	lesired (Best for novices)
Block 1 Sun 1:45p-3:15p Cobots in the Workplace Advantages of Cam Coolants v. Oil Swiss Print Mentor Table for Print	Block 2 Sun 3:30p-5:00p Hidden Value in Your Data Do We Need Ground Barstock for Swiss? Surface Improvement by Mass Finishing Cam (6/8 spindle)Print Mentor Table for Print	Block 3 Mon 8:45a-10:15a Workforce Development ID Issues - Small/Large Hole Drilling Macros: Best Practices Designing Tools for Quality	Block 4 Mon 10:30a-12:00p Why/When/Where of Custom Tooling Lightly Attended GD&T Fundamentals CNC Multi-Function Print Mentor Table for Print
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	ADDITIONAL A	ATTENDEE \$375	
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	option from each block. Please check!		,
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Badge Name (if different than	above) ————		
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	P	AYMENT	
First Attendee (Manufacturi		Send comp check mad PMPA	pleted registration form with le payable to PMPA to:
Additional Attendees @ \$375 each Qty \$			nowville Rd, #200 , Ohio 44141
(Manufacturing & Technical Meml	Total Due \$_	 Registratio	on must be completed online rg to use credit card.

2023

REGISTER TODAY!

PMPA.ORG/MASTERY-PROGRAM



CHARTER BUS EXPERIENCE

- 4 PMPA member shops
- 4 machine tool/equipment builders
- 2 toolmakers
- · 1 steel mill
- · 1 bar grinder
- · 1 machine monitoring company
- 1 CAD CAM company
- · 1 industry media company
- 1 electroplater
- · 1 metalworking fluid compounder

RECEIVE

- · Instruction from industry expert, Miles Free
- Two books filled with invaluable reference materials
- Unparalleled experience and exposure to the precision machining supply chain!



When / Where

TOUR 1 CINCINNATI<u>JULY 20</u> - <u>JULY</u> 21, 2023

TOUR 2 NEW ENGLANDSEPT 13 - SEPT 15, 2023

Registration

\$2,300 for one attendee \$1,800 each for multiple attendees*

Registration includes both Cincinnati Tour and Connecticut Tour, hotel room for overnight stays on July 19 & 20, September 12-14, all meals and snacks, personalized hard hat, safety glasses or shields for eyeglasses and Mastery Program backpack.

Who Should Attend?

Engineers, machinists, purchasing agents, operations, owners.

If the people responsible and having the authority to solve problems are more knowledgeable about their sources and their processes, they can use their judgement to better understand the likelihood and unliklihood of the issues they face being due to a supplier, or in their own process.

*Registration is limited to contract manufacturers and is not transferable — to benefit from the program, the same person must attend both tours.



6880 W. Snowville Rd, #200 Brecksville, OH 44141

Register Today!



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