



MANUFACTURING ADVANCED EXPO

SHOWCASING THE LATEST MANUFACTURING TECHNOLOGY

★ Premier Sponsor



More than 30 exhibits will feature and demonstrate the latest innovations for regional manufacturers, while highlighting how technology can help address workforce challenges. The day will also include educational sessions on solutions to improve processes and operations, and an opportunity to network with your peers.



May 3 | 10am - 3pm
Red Fern

421 Old Kersey Rd, Kersey, PA

May 5 | 10am - 3pm
Ambassador Center

7794 Peach St, Erie, PA

Free to Attend • Free Lunch • Registration Required

Cobots - Robotic Welding - 3D Printing - Laser Marking
Big Data - Automation Solutions - 3D Bin Picking
Dimensional Inspection - Industrial Intelligence
And much more...

Education Sessions & Schedule →

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Register at www.nwpa-ntma.com/expo



Educational Sessions

May 3 - Kersey PA | May 5 - Erie PA

10:30am

Maximizing Machine Utilization and Optimizing Direct Labor Output

With today's skilled labor shortage, how do we maximize our machine utilization and optimize our direct labor output? This session will focus on the benefits of adding additional pallets and tools and a return-on-investment analysis.

Kersey/St Marys presentation will use the example of adding pallets and tools to a Kitamura HX250IG Horizontal machining with a return-on-investment analysis of a 10-pallet system vs. a 2-pallet system.

Erie presentation will use the example of adding pallets and tools to a Kitamura MedCenter 5AX Vertical Five axis machine with a return-on-investment analysis of a 12-pallet system vs. a single table machine with manual load and unload.

Presenter: Dave Lucius, Vice President of Sales, Kitamura Machinery of USA., Inc.



11:00am

Discover the Benefits of Using the Digital Twin in CNC Machines

Manufacturing is changing faster than ever before. CNC technology has developed dramatically in the past decades, extremely extending the machine's cutting efficiency. Now manufacturers are stepping into the new era of productivity improvement with digital twin technology. During this presentation, we will discuss how the digital twin can help a machine builder shorten their machine's PLM cycle by moving processes out of the critical path; how the digital twin can improve communication between machine builders and end-customers; and how digital twin technology can help end-users increase their manufacturing productivity and accelerate their business growth.

Presenter: Tiansu Jing, Product Manager, Siemens Industry Inc.



11:30am

Using Technology to Support Operational Excellence

Before an organization can leverage an existing technology or implement new technology, it needs to understand what problem the technology is going to solve and how that will support providing more value to the customer. Many organizations have procedures in place due to certain limitations. Technology is designed to remove limitations, however if the procedures in place aren't recalibrated, the full benefit of the technology will never be realized. This session will discuss how to leverage existing and new technology to improve business performance.

Presenters: Max Krug, President, Future State Engineering; Dave Griffith, Owner, Capelin Solutions



Educational Sessions

May 3 - Kersey PA | May 5 - Erie PA

12:30pm

Manufacturers Don't Need Robots, They Need Automated Solutions for Specific Tasks and Applications

Collaborative robots continue to explode in popularity. The secret to this growth is understanding that the robot is simply a tool ready to do any task repeatably. Similar to the store for your phone, the power of the collaborative robot is their extensive eco-system of proven solutions such as palletizing, machine tending, grinding, polishing and screw driving. Learn how to take advantage of these powerful tools to put robotics to work for you faster.

Silas Neale, Collaborative Robotics Expert, Universal Robotics; Brian Knopp, Owner, Cobot Systems; and Nick Garcia, Robotic Application Specialist, Robotiq

 UNIVERSAL ROBOTS



 ROBOTIQ

1:00pm

Industrial Robot Programming Tools: How to Easily Simulate, Program and Debug Applications for Successful Deployments

Using software tools industrial robot applications can be re-disked and deployed with a much more predictable implementation schedule. Learn how digital twinning helps you simulate and optimize your production cell off-line. Discover how the latest software tools that leverage virtual reality have changed the industrial robot game and can be put to use to address your workforce challenges.

Presenter: Mitch Schlegel, Robotics Applications Engineer, Neff



1:30pm

The Industrial Internet of Things: How to Put this Popular Buzzword to Work in Your Plant to Maximize Efficiencies and Profits

Perhaps one of the hottest topics in manufacturing is IIoT, or Industry 4.0. As this broad topic covers a mix of hardware and software and touches nearly every department of a company, it is often unclear where to begin leveraging the benefits. Taking on this task can be overwhelming, so developing an initial success in your organization will create internal champions and buy-in. Some of the leaders in supplying solutions into this market will talk about lessons learned from recent deployments and provide insights into some of the best entry points with the shortest path to measurable results.

Presenter: David Roth, IIoT Product Manager, Neff



2:00pm

Implementation of Robotic Gauging and 3D Measurement Solutions for Improved Product Quality

Material shortages have forced many manufacturers to multi-source using new vendors increasing the needs for quality checks. Robotic solutions that work in-line with your machine tools and provide real-time feedback allow the process to be automatically adjusted to ensure continued production of quality parts. Learn how the simplicity of 3D Vision not only adds capabilities for quality control, but in many cases is easier to reliably control than conventional 2D Vision solutions.

Presenters: Fred Haas, Application Manager, New Scale Robotics & David Kepniss, Northeast Territory Manager, LMI Technologies

New Scale
Robotics

