

EVERY GEAR IS HERE

We are exhibiting at #MPTE expo!
Come meet us in person!

DETROIT, MI

OCTOBER 17-19, 2023



EMERGING TECHNOLOGY TOUR

The following companies have given an emerging technology webinar for the AGMA series.

Each month, AGMA highlights one new technology that comes out of the work of our 4 Emerging Technology Committees. Gear industry professionals can learn about technologies that may impact their work.

This tour takes you to exhibitors who have presented in the past so you can see the technology in-person.

The taped version of their webinars are free and available to watch on the AGMA website.

STARTING POINT



American Gear Manufacturers Association

AGMA Booth 3132

<https://www.agma.org/>

The American Gear Manufacturers Association (AGMA) is an association of more than 450 companies, consultants, and academicians with direct interest in the design, manufacture, and application of gears and flexible couplings. AGMA is also the owner of Motion + Power Technology Expo. Founded in 1916, AGMA conducts programs for and provides services to the gear industry and its customers. AGMA is accredited by the American National Standards Institute to write all U.S. standards on gearing.



The AGMA Foundation is the charitable arm of AGMA and provides gear industry scholarships, workforce & education support, and emerging technology programming. Consider a donation at www.agmafoundation.org.

Special thank you to 2023 Emerging Technology Sponsors



STOP 1

WD Bearings America Booth 2332

Sponsor

STOP 2

Tool-X, LLC Booth 3226

<https://www.tool-x.net/>

Tool-X® uses a newly developed, proprietary, extreme pressure additive made with carbon nanoparticles that works in both oil and water-based metalworking fluids. The physical properties of the carbon nanoparticles enhance both cutting tool and metal working fluid performance:

- The nanoparticles lubricate (reduce friction) between the blade and the chips.
- The nanoparticles conduct heat away from the cutting edge of the tool.
- The nanoparticles remove build-up on the contact surfaces like a nanoscale polish.
- The nanoparticles strain harden / shot peen the metal surfaces of the tool.
- The nanoparticles, being inert, withstand high temperatures and don't break down.

WEBINAR: January 2022

Developments in Nanotechnology: How are these products developed and how could some of these lubricants be useful specifically in the gear industry?

Presenter: Jim English, President, Tool-X®

STOP 3

Klingelberg America Booth 3426

<http://www.klingelberg.com>

The Klingelberg group is a world leader in the development, manufacture and sale of machines for bevel gear and cylindrical gear production, measuring centers for gearing and axially symmetrical components as well as customized high-precision gear components. The Company's products are used by customers in automotive, truck, aircraft, agriculture, construction, power tool and marine industries and by a diverse set of customers serving various industrial equipment markets.

STOP 4

Amper Booth 3822

<https://www.amper.xyz/>

Making your plant more efficient, productive and profitable has never been simpler. Amper quickly connects your machines, jobs, and people to give you the key real-time insights you need to grow.

WEBINAR: May 2022

Getting Started with Industry 4.0 for Small & Mid-Sized Manufacturers

Presenter: Akshat Thirani, CEO & Co-Founder

STOP 5

Reishauer Booth 2622

Sponsor

STOP 6

Gleason Corporation

Booth 2308

<http://www.gleason.com>

Gleason is a leader in the development, manufacture and sale of gear production machinery, related equipment, automation solutions, plastic gears and design software for gears and power transmission systems. The Company's products are used by customers in automotive, truck, aircraft, agriculture, mining, energy, construction, power tool and marine industries and by a diverse set of customers serving various industrial equipment markets. Gleason has manufacturing operations in the United States, Brazil, Germany, Switzerland, India, China and Japan, and has sales and service offices throughout North and South America, Europe and in the Asia-Pacific region.

WEBINAR: June 2022

Hard Finishing Cell with In-Process Gear Inspection and Noise Evaluation for e-Drive Gears

Presenters: Dr. Antoine Tuerich, Director Product Management, Hard Finishing Solutions, Gleason Corp.; and Klaus Deininger, International Sales Manager, Gleason Metrology Systems Corp.

STOP 7

Liebherr Gear and Automation

Technologies, Inc.

Booth 2800

<http://www.liebherr.com>

Liebherr Gear and Automation Technologies, Inc. offers a complete program of gear technology and automation solutions. Liebherr manufacturing

machines include gear hobbing, shaping, skiving, chamfering, and gear grinding machines, as well as gear metrology solutions. These machines feature the LHGearTec control system, an intuitive interface that streamlines machine operation and efficiency

WEBINAR: October 2023

Increasing productivity through digitalization: open, versatile, transparent

Presenter: Florian Schuon, Head of Digital Solutions, Liebherr-Verzahntechnik GmbH

WEBINAR: March 2023

Gear Boxes in Electric Drive Trains – Requirements and Solutions

Presenter: Dr. Christof Gorgels, VP Technology & Innovation

STOP 8

KAPP Group

Booth 3200

www.kapp-niles.com.

KAPP NILES is a globally operating group of companies with high-quality and economical solutions for finishing gears and profiles. More than 1000 employees represent the innovative strength and expertise of the sustainably managed family company which has grown for over 120 years.

WEBINAR: September 2023

Generating Ultrafine Surface Finishes on Gear Teeth for EV Applications

Presenter: Patrick Duhre, Team Leader Test Grinding/Contact Grinding

If you are interested in 3D Printing, Automation & Robotics, IIoT (and AI), or Electric Vehicle Technology consider joining an AGMA Emerging Tech Committee today. Contact Mary Ellen Doran at doran@agma.org.

“Our webinar topics are chosen to show off the emerging technology that may disrupt or enhance gear industry professionals in the coming years. We are committed to keep our members informed in these areas.”
Mary Ellen Doran, AGMA Director – Emerging Technology

Mary Ellen curated the tours and will be available for personal tours or questions during your visit to MPT.

