NFPA/FPIC Regional Conference
Thursday, June 4, 2020
8:00 AM to 11:30 AM Central Time

Improving Fluid Power System Efficiency, Reliability and Durability with Precision Manufacturing

8:00 – 8:10 AM	**Connection and Networking Time** It's our first webinar! We want to make sure everyone is connected a ready to go for an informative and interactive morning. Use this time to make sure your connection is working, introduce yourself in the chat room, and connect informally with other participants.
8:10 – 8:30 AM	**Welcome and Icebreaker** Tom Wanke, MSOE, will call us to order, talk about the technology theme for the day's session, and make some other important announcements. Eric Lanke, NFPA, will then lead a short online polling session to gather and display demographics, business outlooks, and interesting facts about our participants.
8:30 – 9:20 AM	**Bore Finishing Processes for Improved Hydraulic Component Performance** ***Phil Hanna,*** *Product Manager - Machines/Gages, Sunnen Products Company* **ABSTRACT** Honing, lapping, and skiving/roller burnishing are all finishing processes for improving the bores of hydraulic components including valves and cylinders. Honing is a secondary machining process for finishing bores. Lapping as used in bore finishing produces a very close tolerance fit between a plunger and a valve body to reduce internal leakage. Skiving and roller burnishing is a two-part process using a single tool for quickly finishing the bore of tubing to achieve size and surface finish. This presentation will discuss each of these processes in detail, including features, benefits and applications where they are used. Phil will present for 40 minutes, and reserve 10 minutes for a moderated Q&A through the chat room.
9:20 – 9:30 AM	**First Break** We'll take a 10-minute break to give you time to see to other details of your morning, or to connect with other participants in a series of private chat channels. Don't be late coming back, though. The next speaker will start at 9:30 AM sharp!
9:30 – 10:20 AM	**Technology Integration in Real Life Production Machining** ***John Belmonte,*** *President, Mitotec Precision, LLC* **ABSTRACT** This presentation is a real-life perspective on technology integration from a modern production machining supplier to the hydraulic industry. John will share some of Mitotec's successful implementation of today's advanced technology. Several aspects of machining components in a production environment will be discussed, including technology in production machining, modern inspection systems, real-time data collection & machine monitoring, as well as other processes that are utilized at Mitotec to produce components for the hydraulic and other industries. Along the way you will hear about how the human element along with the company culture play an integral part in the success of a contract machining operation today. John will present for 40 minutes, and reserve 10 minutes for a moderated Q&A through the chat room.
10:20 – 10:30 AM	**Second Break**

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10:30 – 11:20 AM	**Maximizing Manufacturing Productivity in the Information Age** ***Dan Skulan,*** *General Manager, Industrial Metrology, Renishaw, Inc.* **ABSTRACT** Manufacturers today are required to have greater throughput, more flexibility, higher quality, and innovative products in order to be competitive. But these goals need be achieved with less available skilled labor and at a lower cost – how can this be done? This presentation, with a concentration on machining operations, will provide practical guidance on how companies can increase throughput, quality, and productivity in manufacturing while also controlling costs. The stages of the Productive Process Pyramid will be discussed to identify areas where new techniques and technologies have been employed to improve overall productivity. Dan will present for 40 minutes, and reserve 10 minutes for a moderated Q&A through the chat room.
11:20 – 11:30 AM	**Wrap-Up and Evaluation** Tom Wanke, MSOE, will provide some summary comments on the morning, answer any remaining questions, and thank everyone for participating. Eric Lanke, NFPA, will then conduct a brief online evaluation poll to gather feedback on the success of this program and to collect ideas for future programs.

NFPA is the **National Fluid Power Association**, a trade association representing more than 330 companies across the fluid power supply chain, that works to strengthen the fluid power industry by convening an effective forum of industry stakeholders, delivering industry statistics and market information, providing opportunities for fluid power promotion, and building an educated workforce for the industry. Companies interested in joining NFPA should contact:
Eric Lanke, President/CEO, NFPA
(414) 778-3351; elanke@nfpa.com

FPIC is the **Fluid Power Industrial Consortium**, an industry networking group established by the Milwaukee School of Engineering to engage fluid power suppliers, manufacturers, distributors, and OEMs in a quarterly series of half-day seminars on the latest fluid power technology advances with immediate implementation. All NFPA members are automatically members of FPIC. Non-NFPA-members interested in joining FPIC should contact:
Tom Wanke, Director, FPIC and Industry Relations, MSOE
(414) 277-7191; wanke@msoe.edu

Future Programs:

- September 3, 2020 – NFPA/FPIC Regional Conference – Milwaukee, WI – Topic: **Advanced Contamination Control Technologies for Improving Fluid Power System Efficiency, Reliability and Durability**
- December 3, 2020 – NFPA/FPIC Regional Conference – Chicago, IL – Topic: TBD
- March 4, 2021 – NFPA/FPIC Regional Conference – Location and Topic TBD
- June 3, 2021 – NFPA/FPIC Regional Conference – Location and Topic TBD