Makino Micromachining Conference Delivers Industry-Leading Perspectives and Ultra-Precision Technologies

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Auburn Hills, Mich. – July 18, 2013 – Makino is pleased to announce a special one-day event that focuses on new developments in micromanufacturing processes and equipment. The Makino Micromachining Conference (http://www.makino.com/micromachining-conference/) is slated to take place Tuesday, Sept. 10, from 8 a.m. to 5 p.m. at the Makino Technology Center in Auburn Hills, Mich. This inaugural conference is set to include demonstrations of Makino's latest micromachining (http://www.makino.com/machining-process/micromachining-process/) technologies and guest presentations addressing manufacturing at the micro-scale.

"Micromachining technologies are taking on increased importance in a variety of markets, including medical devices, electronics, optics and communications," said Mark Rentschler, marketing manager at Makino. "Attendees will come away with insights on the latest technologies for ultra-precision machining, and the processes and techniques required for achieving high levels of accuracy and mirror-like finishes."

Makino plans to showcase new developments in micromanufacturing processes and equipment. Presentations (http://www.makino.com/micromachining-conference/presentations/) are going to address theoretical and applied research related to processes, systems and equipment for manufacture and metrology, associated with the creation of components and systems with 3-D features to high relative accuracies in a wide range of materials.

For a detailed agenda, directions and event registration (http://www.makino.com/micromachining-conference/meetwithus/), visit www.makino.com/micromachining-conference (http://www.makino.com/micromachining-conference), or call 1-800-552-3288.

Featured Machines and Demonstrations

At the conference, Makino is set to open its micromachining research and development center to attendees. Makino engineers are scheduled for one-on-one consultations to help manufacturers identify a manufacturing solution that best fits their unique needs. In addition, attendees can observe a variety of milling and EDM demonstrations. Planned processes are noted below:

–Automatic wire threading of 0.050-mm wire in a tungsten carbide fiber optic tooling application on the UPN-01 horizontal wire EDM

–Hale machining of an optical surface using the dynamic accuracy of the iQ300 ultra-precision machining center

–Direct machining of tungsten carbide workpiece materials on the V33i vertical machining center

–Reliable, unattended fine-hole machining on the EDAF3-FH sinker EDM

–Oil-based wire EDM machining of carbide to superior accuracy and surface finish using 0.0030-inch-diameter wire on the UPV-3 wire EDM

Guest Presenters

Attendees of the Micromachining Conference can anticipate a high level of exposure to the brightest minds in modern micromachining, with backgrounds ranging from implementation of manufacturing processes to micro tooling and metrology solution providers.

–[Special Guest] William P. King, *Director of the Center for Nanoscale Chemical-Electrical-Mechanical Manufacturing Systems (NANO-CEMMS) and College of Engineering Abel Bliss Professor in Department of Mechanical Science and Engineering at University of Illinois at Urbana-Champaign (UIUC)* – William P. King received the Ph.D. degree in mechanical engineering from Stanford University in 2002. He completed the Program for Leadership Development at Harvard Business School 2012. During 1999-2001, he worked at the IBM Zurich Research Laboratory. During 2002-2006, he was on the faculty at Georgia Tech. At Illinois, his research group focuses on advanced manufacturing, nanotechnology, and materials. King is the winner of numerous awards for research accomplishment, including a citation from the White House in 2005. In 2006, Technology Review Magazine named him of the people whose innovations are likely to change the world. He is a Fellow of the ASME and in 2013 was selected as the most accomplished mechanical engineer within 20 years of graduation. King has twice won the R&D 100 Award. He has authored over 175 journal articles and

20 patents. He has co-founded two companies, and has served as advisor or director at an additional 10 companies. King is a member of DARPA's Defense Sciences Research Council where he currently serves as associate chair.

–Jeff Bibee, *Vice President of Sales and Marketing, Werth Inc.* – Jeff Bibee is a graduate of Brown University and has been involved in technical sales in the machine tool industry for over 30 years. Werth is a manufacturer of advanced optical and multi-sensor coordinate measuring machines. The more than 50-year history of Werth Messtechnik GmbH has been dedicated to the development of new technologies to meet the ever increasing requirements and challenges of dimensional measurement.

–Brad Etter, *Sales Manager U.S., Alicona* – Brad Etter started his career in optical microscopy and measurement in 2007 after earning his degree in management at the University of Colorado at Boulder. Brad works at Alicona's North American headquarters located in Bartlett, Ill., where he manages the direct sales and application staff. He works closely with management and R&D in developing new solutions, making sure the needs of the North American market are met.

–Fumi Hirajima, *Vice President of Sales and Marketing, Union Tool* – Fumi Hirajima graduated in 2001 from the Department of Law, Meiji Gakuin University, Japan, and joined Union Tool's International Department in the same year. After training at the Nagaoka factory, he was responsible for international sales in Union Tool's global operation. From 2008 to 2012, he moved to Shanghai as the deputy general manager for sales at Union Tool Shanghai. In 2012, he was promoted to his current position as vice president of sales and marketing.

–Mark Raleigh, *Founder and CEO, EDM Department Inc.* – Mark is the CEO and founder of EDM Department Inc. and the co-founder of Alicona Manufacturing. He has a mathematics background, specializing in statistical application. His interests include Smart manufacturing and artificial intelligence software systems.

–Mike Schmidt, *Market Development Manager, Zygo* – Mike Schmidt has been with the Zygo Corporation for 13 years and is currently the market development manager, covering Southeast Asia and India. Mike's expertise stems from studying physics and astronomy as well as his years spent assisting engineers, technicians and production workers all over the world in understanding process control and metrology.

About Makino

A world leader in advanced CNC machining centers, Makino is committed to providing high-performance, leading-edge machining technologies and innovative engineered process solutions that enable manufacturers to focus on making what matters. Makino offers a wide range of high-precision metal-cutting and EDM machinery, including horizontal machining centers, (http://www.makino.com/horizontal-machining-4-axis/)vertical machining centers, (http://www.makino.com/vertical-machining-centers/)5-axis machining centers (http://www.makino.com/horizontal-machining-5-axis/), graphite machining centers (http://www.makino.com/graphite-machining-centers/), and wire (http://www.makino.com/wire-edm/) and Ram EDMs (http://www.makino.com/ram-edm/). Makino's flexible automation solutions (http://www.makino.com/engineering-services/machine-tool-automation/)provide reduced labor costs and increased throughput in a variety of production volumes and designs. Makino's engineering services (http://www.makino.com/engineering-services/) offers industry-leading expertise for even the most challenging applications across all industries. For more information, call 1-800-552-3288 or visit makino.com.

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