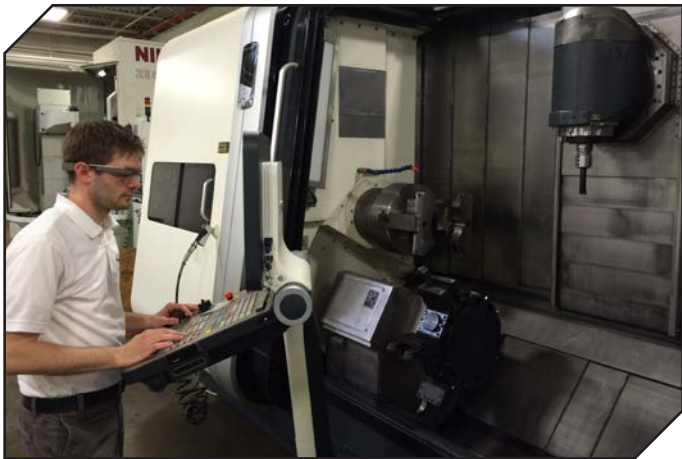


ITAMCO

ENGINEER WINS CASH PRIZE FOR GOOGLE GLASS APPLICATION

Joel Neidig, an engineer at Indiana Gear (a division of ITAMCO), was awarded \$75,000 for his research project titled “Expanding Manufacturing’s Vision: MTConnect and Google Glass.”



Neidig’s winning project was his contribution to the MTConnect Challenge 2. The National Center for Defense Manufacturing and Machining (NCDMM), the Office of the Secretary of Defense (OSD), Defense-wide Manufacturing Science and Technology (DMS&T), the Association for Manufacturing Technology (AMT) and the U.S. Army Benét Labs sponsored the contest. Participants were asked to develop innovative and unique software applications using the MTConnect standard that could be easily adopted by manufacturing enterprises, especially lower-tier producers. MTConnect is an open, royalty-free set of communication standards intended to foster greater interoperability and information sharing between manufacturing equipment, devices, and software applications.

Neidig coupled MTConnect functionality with Google Glass — a camera, touchpad, microphone, email and Internet connection built into a spectacle frame. Neidig’s application, called the MTConnect Glassware app, will reveal a view of the manufacturing process that has never been seen before. The app user will be liberated from laptops and handheld smart devices and be able to travel the entire shop floor, gathering and sharing machine data provided by MTConnect, and accessing the Internet for more information.

“We’re using the MTConnect Glassware app on our shop floor at Indiana Gear and have received inquiries from companies that want a customized solution. We plan to use the prize money to develop the next generation of the app, which will be available in safety glasses,” said Neidig.

The award-winning product benefits every department in a manufacturing facility, from the shop floor to the management suite. Getting and sharing information will be as intuitive and non-threatening as using a smartphone or playing a video game, but glasses do not distract from a task like hand-

held devices. For example, a new machine operator watches YouTube training videos while at the machine, supplementing his training program. A machine operator sends an email to the maintenance staff as soon as he sees a problem. The CEO travels the shop floor, getting accurate real-time machine data and comparing it to the company’s accounting, quality control, sales and engineering data. Project managers evaluate workflow and machine readiness before scheduling future work.

They will access 100 percent accurate data and share information with their customers to ensure smooth delivery between vendors. The maintenance staff becomes even more astute at monitoring machines and they respond quicker to problems while developing stronger preventative maintenance programs. With Google Glass, they can “see” instruction manuals overlaid on the equipment when installing or repairing machinery. The sales staff provides guided Google Glass tours, impressing prospects with the capabilities of the facility and helping them visualize the final product.

STAR SU & FFG Werke

EXTEND PARTNERSHIP

Illinois-based Star SU LLC and FFG Werke GmbH, a German machine tool manufacturer, signed a contract extending their partnership for machine tool sales and service in the Americas. Having worked together successfully with FFG’s Modul hobbing machines brand, a seller of gear manufacturing equipment for more than 20 years, the Star SU portfolio now also covers VDF Boehringer and Hessapp turning machines as well as Hüller Hille machining centers and Witzig & Frank multi-way, multi-spindle machines. The partners anticipate substantial synergies based on Star SU’s extensive footprint in the United States, Canada, Mexico and Brazil, and its strong ties into the automotive, tier supplier, energy and other industries, combined with the technological expertise and application know-how of FFG’s brands in the target industries.

David Goodfellow, CEO of Star SU, expects that his customers in the Americas will benefit substantially from the new portfolio: “In the past, we proved that, together with our German partners, we can deliver the right solution, at the right time and quality, and secure long-term productivity with our highly skilled service team. We have thus become a reliable and innovative partner for the automotive industry, tier suppliers, and other manufacturers across the continent, especially for transmission component applications. I am excited to present this new range of high-end manufacturing technology brands for turning and milling applications to our customers.” As full-range partner, Star SU is able to handle entire projects for FFG products, from the initial request to import, on-site installation and commissioning, including financing and leasing services, all in



local currency. Besides manufacturing and engineering capacities for precision tools and machinery, Star SU has six service centers in the United States, Mexico and Brazil, and a total of approx. 500 employees.

The American market is of strategic importance for FFG, says **Martin Winterstein**, vice president of sales and marketing: "Apart from strengthening our service capacities for our installed base in the Americas, we see considerable potential in various industries. Whether it's automotive and truck components, or applications in the energy, rail, agricultural or engineering sectors, we are sure that Star SU is the right partner to bring our solutions to the growing North and South American markets." FFG Werke GmbH's manufacturing base in Germany comprises four manufacturing plants and more than two hundred years of metal cutting knowhow. At the IMTS in Chicago, starting September 8, 2014, Star SU and FFG will present their extended portfolio to the general public. For more information, visit www.star-su.com or www.ffg-werke.com.



EMAG

SHOWCASES MANUFACTURING SYSTEMS AT TECHNOLOGY DAYS

To celebrate their 20th anniversary, EMAG USA opened its doors to manufacturers and vendors to join them for their open house Technology Days May 13-14 at their Farmington Hills, Michigan headquarters. Throughout the two-day event manufacturing decision-makers attended technology seminars held by EMAG's industry experts. Here attendees gained valuable knowledge in both industry trends and unsurpassed EMAG manufacturing solutions. Participants expanded their process know-how in eight presentations, including CV-Joint production, brake disc machining with continuous workpiece flow, electro-chemical machining and production laser welding. EMAG's first spindle down machine was also introduced in the VM Platform world-premier seminar. Paul Traub, business economist from the Federal Reserve Bank of Chicago





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and Lisa Katz, executive director of the Workforce Intelligence Network of Southeast Michigan provided insights into the economy and manufacturing's role in supporting economic recovery and a highly-skilled workforce. These hot-topics not only provided the opportunity for EMAG to re-introduce its new Mechatronics Apprenticeship Program, but also provided guests the chance to pose questions and sparked many discussions amongst participants.

Another highlight of the event was the live metalworking demonstrations on multiple EMAG machines. Attendees witnessed world-class manufacturing solutions for carrier production on the VLC 250, combination machining with the VSC 400 DDS hard-turn and grinding, and two-sided shaft machining on the VT 2-4 from EMAG's new Modular Standard product family. The unique event allowed participants to secure greater process knowledge in their markets and provided numerous networking opportunities within the industry. "We like to open



our doors and welcome in both known and new customers to see the capabilities of our production facility and meet our team while sharing with them the wide range of solutions EMAG has to offer for any manufacturing challenge," stated Peter Loetzner, CEO of EMAG LLC. "We are proud to celebrate 20 years of operation in the US with our customers and share with them how we are advancing technologies to make the next 20 years even more successful."

Ipsen U

OFFERS EDUCATION IN HEATTREATMENT

With an ever-increasing need for first-hand knowledge of thermal processing and the intricate functions of specific equipment, companies are recognizing the importance of sending employees to Ipsen U. Not only was Ipsen U's April class full, but the upcoming June course is also completely booked. Ipsen U's three-day course allows attendees to ask questions about specific equipment and processes, as well as learn directly from Ipsen experts in a casual, open-forum environment. This proves useful for those wanting to expand their thermal processing knowledge base, as well as for first-time furnace buyers.

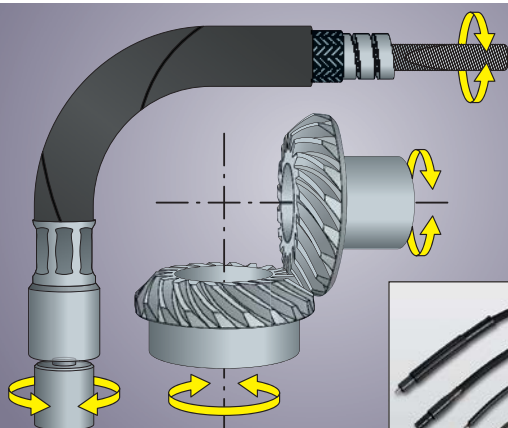
Attendees from the most recent Ipsen U course came from a wide variety of locales, including California, Georgia, Texas, Florida, Wisconsin, Michigan and Mexico. A survey of Ipsen U's April participants found they thought the course provided a

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“much better understanding of the overall function of vacuum furnaces, as well as the key principles to how they work and troubleshooting when issues arise.” Another participant surveyed praised the instructors’ “incredible amount of knowledge, tips and real world advice.”

Ipsen U’s instructors cover an extensive range of topics, from an introduction to vacuum furnaces and heat treating to furnace sub-systems, leak detection, maintenance and so much more. Most notable about Ipsen U is participants’ ability to bring up any topic pertaining to their specific vacuum furnace operations for discussion. This allows for some fluidity and permits the instructors to shape the course to individuals’ specific needs and concerns.

In addition to making experts available for one-on-one discussions, Ipsen U also puts information concerning furnace maintenance and upkeep into the participants’ own hands, providing them with the tools necessary for the continued, successful operation of their own equipment. With equipment that contains a multitude of parts that are expensive to replace and can be damaged in various ways, sending employees to learn from the experts has its benefits.

The value of attending such a course is immeasurable because employees have the opportunity to learn first-hand about the equipment and processes they will be utilizing in the workplace. Learn more and register for one of the two remaining Ipsen U courses this year, August 5-7 or October 14-16, at www.ipsenusa.com/ipsenu.

CMSC

SELECTS PRESENTATIONS FOR 2014 CONFERENCE

The Coordinate Metrology Society (CMS) announced that it has selected a comprehensive slate of 24 technical presentations for the 2014 Coordinate Metrology Systems Conference (CMSC), July 21-25, 2014, at the Embassy Suites, North Charleston, SC. The organization celebrates its 30th Anniversary this year, and continues its long tradition of serving the specialized needs of 3-D measurement/inspection professionals and scientists worldwide. In addition to original technical presentations, the CMSC serves as a platform for dis-

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covering and discussing new and future technologies. During the five-day event, attendees and exhibitors share their experiences, research, concepts and theory in an open, educational atmosphere. A full listing of the CMSC 2014 technical presentations and Conference Registration information can be found at www.CMSC.org.

The CMS completed its peer review of a record number of abstract submissions, and selected 24 technical presentations from industry experts representing leading international companies and organizations such as NASA Goddard Space Flight Center, Rolls-Royce, NIST, National Solar Observatory, Espace2001, The Boeing Company, Lockheed Martin, Premium AeroTech, Electroimpact, National Propulsion Laboratory (NPL-UK), Hitachi Power Solutions Co., BMW Manufacturing, Sigma Space, and the National Research Council of Canada. The roster also includes speakers from prestigious educational institutions including the University of California Davis, Escola Politecnica da Universidade de Sao Paulo, Wichita State University, and the School of Mechatronic Engineering and Automation from Shanghai University.



The CMSC presentation roster will include wide-ranging topics related to best practices, trends, and the application of 3-D metrology techniques and technology. Subjects range from "Automated Metrology in a Business Jet Final Assembly Line" to "Metrology-Enhanced Robotic Milling" to "100% Automated Production Measurement of a Car Body Welding Line with Absolute Reference." Speakers will cover the use of portable 3D coordinate measurement systems, laser trackers, photogrammetry, laser radar, 3-D scanners and sensors, inspection software and more. The CMSC 2014 Presentation Agenda can be found online at 2014 CMSC Presenters.

For three decades, the event has attracted thousands of attendees from prominent science/research laboratories, educational institutions, and industries such as aerospace, satellite, automotive, shipbuilding, power generation, and general engineering. The CMSC Conference Agenda also includes Level-1 and Level-2 Certification examinations, a new Measurement Study, hands-on workshops, and networking events. More than 40 exhibitors will pack the exhibition hall with portable measurement systems (PCMMs), software, and accessories supported by OEMs and service providers.

Hainbuch

WELCOMES NORTHEAST REGIONAL SALES MANAGER

Hainbuch America is pleased to announce that **Shawn Harty** has joined the team as the northeast regional sales manager. Harty has had a successful 20 year career in manufacturing management and sales, most recently as the owner of PMDG, a turnkey integrator of manufacturing solutions to several large manufacturing companies on the east coast. PMDG successfully used Hainbuch components in a number of applications, and Harty's appreciation for the quality and versatility of Hainbuch products led to his decision to join our team. Harty attended Penn State University and served in the United States Marine Corps where he trained in aviation electronics. Harty has also been successful selling cutting tools for Iscar Metals in the same territory he will cover for Hainbuch. He looks forward to leveraging his technical expertise in manufacturing design to distributors and end users in his territory and to bringing Hainbuch's adaptable precision workholding devices to an expanding list of customers.



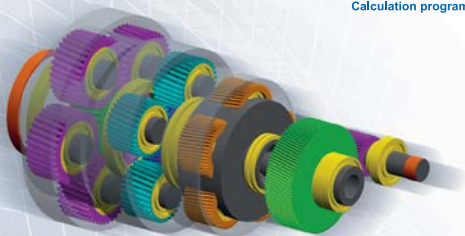
GMTA

TREASURER RECEIVES MBA FROM EASTERN MICHIGAN

GMTA proudly announces that **Claudia Hambleton**, corporate treasurer and administrative manager, received her MBA from Eastern Michigan University (EMU) on April 27, 2014. Hambleton has been a GMTA associate since the company opened its doors in January, 1991. "I am very grateful to GMTA for supporting my efforts to acquire an MBA. I look forward to using my new skills to further enhance the business at our company. It was also very rewarding to network with the business school students and staff at EMU, where GMTA now has a working relationship with their German business development track," Hambleton says. GMTA routinely hosts a program in German for students in the EMU business school who plan to work for or with German companies as a career path.

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