

American Broach

PLANS NEW R&D CENTER



American Broach and Machine Company will establish a new research and development center in the Ann Arbor region. The company recently received a Michigan Economic Growth Authority (MEGA) tax credit totaling \$572,782 to help encourage the expansion. "American Broach is focused on quality processes and investing in manufacturing capability in order to make the world's highest quality internal spline broach cutting tools for gears and spline parts," said Ken Nemec, president, American Broach. "American Broach would like to design, develop, and build newly innovated broaching machines to add value to manufacturing while growing jobs in Michigan. The company's new research and development center would give American Broach an edge in a tough industry, and help rebuild Michigan's manufacturing base."

American Broach, a designer and builder of machine tools for the auto and defense sectors, plans to invest \$25 million in a new research and development center in Ypsilanti. The company expects the project to create up to 43 new jobs. The MEGA award helped convince the company to invest in Michigan over competing sites in Canada and China. "The Ann Arbor region is a destination for advanced manufacturing," said Skip Simms, interim president and CEO. "Access to talent as well as existing facilities and equipment help advanced manufacturing businesses hit the ground running and grow quickly in the Ann Arbor region." The City of Ypsilanti is considering tax abatements in support of the project.

Gleason

EXPANDS ADVANCED COATINGS FACILITY



Gleason Corporation has recently announced a new investment to expand the Advanced Coatings Facility at its Gleason Cutting Tools Corporation (GCTC) facility located in Loves Park, Illinois. The expansion includes an enlargement of the coating department that will accommodate an additional Balzers Coating System and an additional automated computer controlled cleaning line. The additional coating unit and clean line complements the substantial coatings capability that already exists at Gleason. "The additional capacity this investment will bring will help further reduce our lead times to meet the increasing demand for GCTC's Contract Sharpening and Recoating Service business, as well as coating requirements on our new cutting tool products," says Roger Hackman, vice president of technology and quality. Gleason Cutting Tools Corporation can provide Titanium Nitride (TiNite), Titanium Carbonitride (CarboNite), Titanium Aluminum Nitride (AlNite) and Aluminum Chromium Nitride (AlCroNite) coatings, applied to high speed steel and carbide substrate cutting tool materials.

Solar

OFFERS WHITE PAPER ON PID PARAMETERS

Solar Atmospheres, Inc. has written a technical white

paper on understanding and proper usage of PID parameters as they relate to controlling vacuum furnace temperature. This tutorial will assist furnace engineers and operators to better understand and properly use the functions of a PID Controller and thereby obtain improved temperature control, particularly in program ramping and minimizing temperature overshoot, required for AMS 2750D. This paper describes how to both manually and automatically set PID values for various temperatures of operation. It highlights how to establish better results especially in the lower temperature ranges of operation (300–1500 degrees F) and also how to better understand instruments that have the auto-tuning feature. The paper can be viewed at <http://www.solaratm.com/technical-paper-downloads>.

PMA

ELECTS NEW LEADERS

The Precision Metal-forming Association (PMA) recently announced the election of Augusto Gil (pictured right) to the position of Metal Spinning Division vice chair and Benjamin Barnett to Next Generation Leaders Division vice chair. Gil, general manager for Hialeah Metal Spinning, Hialeah, Florida, has been active within the Metal Spinning Division for nearly a decade and previously served as a member of the group's program committee. In his new role as vice chair, he will



Augusto Gil

work to increase division participation and membership by preparing valuable content for presentations and group discussions. Gil will serve alongside Metal Spinning Division chair/director John McGeever, president of Charles Schillinger Co. McGeever acted as vice chair in 2009 before being elected chair in 2010-2011. Gil will



John McGeever

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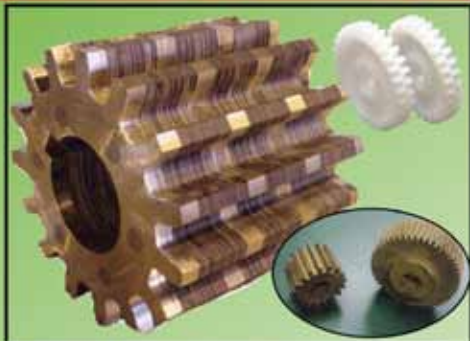




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Benjamin Barnett

serve one year as vice chair and then will become chair/director in 2012-2013. Barnett, vice president of Principal Manufacturing Corp., looks to increase participation of younger people within PMA's Next Generation Leaders Division through his responsibilities as vice chair of the group. He has been participating in division activities for the past several years and serves as the membership chair for

the local PMA Chicago District. Barnett joins chair/director Rick Bachman, vice president of logistics for Feintool North America, with leadership positions in the division. Bachman served as vice chair in 2009-2010 before being named chair/director for 2011-2012. Barnett will act as vice chair of the division in 2011-2012 before becoming chair/director in 2013-2014.



Rick Bachman

Manufacturing Technology Consumption

UP 85 PERCENT IN 2010

December U.S. manufacturing technology consumption totaled \$446.76 million, according to The Association for Manufacturing Technology (AMT) and the American Machine Tool Distributors' Association (AMTDA) This total, as reported by companies participating in the United States Manufacturing Technology Consumption (USMTC) program, was up 40.9 percent from November and up 104.8 percent when compared with the total of \$218.16 million reported for

December 2009. With a year-to-date total of \$3,236.00 million, 2010 is up 85.3 percent compared with 2009.

These numbers and all data in this report are based on the totals of actual data reported by companies participating in the USMTC program.

"For the first time in USMTC history, we experienced four months of consecutive growth following IMTS, ending the year on a solid upswing," said Douglas K. Woods, president of AMT. "2010 orders closed strong, up 85 percent over 2009, and December's orders were 40.9 percent higher than the previous month. With backlogs firming and quotation levels accelerating, we are very optimistic that the industry will see strong results in 2011."

The USMTC report, jointly compiled by the two trade associations representing the production and distribution of manufacturing technology, provides regional and national U.S. consumption data of domestic and imported machine tools and related equipment. Analysis of manufacturing technology consumption provides a reliable leading economic indicator as manufacturing industries invest in capital metalworking equipment to increase capacity and improve productivity. For more information on this report, visit www.amtonline.org.

Madeira

APPOINTED VICE PRESIDENT OF HEAT TREATING

Inductoheat, Inc., located in Madison Heights, Michigan, has appointed Robert Madeira as the vice president of heat treating. Madeira has worked in the induction heat treat industry for more than 26 years, most recently as the director of sales for Fluxtrol, Inc. He has a B.S. from Michigan State and a M.A. from University of Detroit. As the vice president of heat treating, Madeira is responsible for successfully managing customer's needs, lead-



Robert Madeira

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ership of Inductoheat's business strategies and spearheading the North American sales efforts. This position reports directly to the president. "With his extensive background in the heat treating industry, we are excited to see what new business opportunities Rob will bring to Inductoheat," said Douglas Brown president/COO of Inductoheat Inc.

Gary Doyon, president/CEO of the Inductotherm Group adds, "We are thrilled to have Rob join us in our continued effort to add great teammates with experience and enthusiasm. We will have Rob help push our efforts to grow both domestically as well as internationally for our fa

Interactive Manufacturing Experience

CHARTS NEW COURSE FOR U.S. MANUFACTURING



From some of the United States' largest industrial technology innovators to the heads of small machine shops and providers of workholding, drilling and grinding tools, manufacturers from across the country will gather this fall at an unprecedented industry summit to chart a new course for the domestic manufacturing industry. Kennametal Inc., a global market leader in delivering productivity in demanding environments through innovative custom and standard wear-resistant solutions, has become the newest experience partner to sign on for the event. Taking place Sept. 12-14, 2011, in Las Vegas, the Interactive Manufacturing Experience (imX) will bring together industry leaders from companies large and small to recognize that only through education and collaboration can the nation's manufacturers thrive in today's global marketplace. "Although we're still seven months out from the event, early response from manufacturers coast to coast is an indicator of imX's vital importance to this industry," said Steve Prahalis, experience manager, imX.

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Manufacturing Summer Camps

ENTICE AMERICA'S YOUTH



Nuts, Bolts and Thingamajigs (NBT) and the National Association for Community College Entrepreneurship (NACCE) have partnered together to launch a unique summer camp program that combines elements of manufacturing and entrepreneurship with how things are made and how businesses develop. The schools have hosted a 2010 camp as part of a pilot program that will eventually develop into a national program with as many as 300 locations across the United States. Campers design and build a product experiencing the start to finish satisfaction of creating something they can show off with pride. Throughout the process, they learn how to do CAD design and operate various kinds of manufacturing machinery under the close supervision of expert manufactur-

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ing trainers. They will also tour local manufacturing facilities learning what kinds of jobs exist, what skills and training are required and how those businesses developed. They will have the opportunity to hear directly from local manufacturing company owners how they started their businesses, applying basic entrepreneurship principles to understand how a single product idea becomes a business. Whether a young person aspires to work in manufacturing or medicine or law or any other field, having a basic understanding of how things are made and how businesses develop will make them more appreciative of the world around them and the "tools" they will use in their adult life. Each camp is unique in its own way and addresses local needs. All are aimed at ensuring the future of manufacturing by changing the image of manufacturing for today's youth. For more information on these camps or to make a contribution in honor of one of the camps, call 888-394-4362 or visit www.nutsandboltsfoundation.org.

Nevada Heat Treating

Purchases BeaverMatic Furnace



Nevada Heat Treating, Inc., a progressive commercial heat treating company, has purchased a BeaverMatic Internal Quench Furnace (IQF) and a BeaverMatic Temper Furnace for enhanced acceleration of product development cycles in growth industries.

Based on consistently high performance results of existing BeaverMatic equipment installed in Nevada's plant operations, vice president, Patrick McKenna, purchased a new

BeaverMatic IQF Furnace with a work area of 30 inches wide by 48 inches long by 26 inches high for hardening 1,500 pounds of small-to-medium size parts.

A trade secret of BeaverMatic is its "RAM" transfer system, a pull-push design, for reliably controlling a load from different zones. Unique to this furnace design is a third RAM which pushes loads from the hot zone to the quench elevator. This third RAM is located between the two existing RAMS.

As an environmentally-conscious heat treater, McKenna chooses eco-friendly products and methods to minimize their environmental impact. Therefore, when purchasing this internal quench furnace which utilizes 1,300 gallons of oil for heating and cooling, it was critical to incorporate a quench oil centrifugal filtration system.

For precision control of temperature and furnace operations, Super Systems Inc. of Cincinnati, Ohio is being used for software and process control. The 9205 controller will provide all the necessary temperature and atmosphere control. The 9205 is specially designed for complex atmosphere furnace applications using sophisticated recipe programming, Ethernet communications, built in data logging and expandable I/O to meet the most complex requirements. Complementing the process control is the SuperDATA SCADA system which will provide Nevada Heat Treat with quick access to real-time and historical data throughout the plant.

Ipsen

OPENS SECOND OFFICE IN JAPAN

Ipsen has expanded its existing coverage in Japan by opening a new sales office in Tokyo, Japan. The new office will focus on sales and service in the Kanto region. This expansion will assist Ipsen in continuing to provide superior customer service and support backed by Ipsen's knowledge and expertise. At the same time, Ipsen is pleased to announce the newest member of its sales team heading up the Tokyo office, Stephan Gagne. With more than 12 years experience in the Japanese market, Gagne has extensive knowledge of production, aerospace, tooling and the automotive industries. Gagne will focus his attention and support on the growing demand for new equipment with an emphasis on aftermarket sales and service. Ipsen, Inc. designs and manufactures thermal processing systems for a wide variety of markets including aerospace, medical, energy, chemical and automotive.

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