

Ken Chase

RETIRES FROM BYU MECHANICAL ENGINEERING DEPARTMENT

Longtime AGMA member and AGMA FTM author Dr. Kenneth W. Chase has retired from the Mechanical Engineering Department at Brigham Young University. In his 42-year career, Dr. Chase taught mechanical engineering at BYU since 1968, including machine design, design for manufacture and structural analysis. An advocate of computer technology, he served as a consultant to industry on numerous projects involving engineering software applications. In 1984, he founded the Association for the Development of Computer-Aided Tolerancing Systems (ADCATS). The mission of the association is the development of CAD-based tolerancing software. Members of the association include Allied Signal Aerospace, Boeing, Cummins, FMC, Ford, Hewlett Packard, Hughes, IBM, Motorola, Sandia Labs, Sigmetrix and Texas Instruments.

A 1962 graduate of BYU's ME department, Dr. Chase went on to receive a Master's Degree from BYU in 1964 and a Ph.D. from the University of California Berkeley in 1972. Dr. Chase became an NSF Fellow in 1963 and was a member of Tau Beta Pi and Sigma Xi. He received the Fulton College Research Professorship in 1988 and the Outreach Award in 2002.

Dr. Chase was the faculty advisor for BYU's student chapter of ASME, and took student teams to competitions and conferences all over the world. As a professor, he has influenced thousands of students, both inside and outside of the classroom. Many students have commented on his dedication to helping them, even when it required time beyond Dr. Chase's regular office hours.

Schafer Gear

ANNOUNCES JOINT VENTURE WITH SOMASCHINI



Schafer Gear Works, Inc. and Somaschini S.p.A. of Italy, recently announced a joint venture to produce gears for engines for the heavy-duty truck market in North America. A new manufacturing facility will be located in South Bend under the name of South Bend Gear LLC. The plant will utilize the process technology developed by Somaschini S.p.A. in Italy with Schafer Gear managing the operations. As part of the joint venture, a new 50,000-square-foot plant is being built on the Schafer Gear campus on Nimtz Parkway in South Bend. Production is scheduled to begin in late 2011 at 50 percent capacity and will reach 100 percent production capacity by the end of 2012. The new plant will employ 12 people in phase one and an additional 13 people, for a total of 25 people, when fully operational. The total joint venture investment is \$18 million, including the new manufacturing facility. "We are extremely excited about the opportunity this joint venture brings to Schafer and to South Bend," said Bipin Doshi, president of Schafer Gear. "Somaschini's long history of quality gear production and its proven technology complements our world-wide reputation for precision cut gears and precisely machined components."

Mazak

APPOINTS NEW SERVICE MANAGER

Mazak Corporation has appointed Steve Mackay to the position of service manager at Mazak Corporation Canada in Cambridge, Ontario. Mackay has an extensive background in the machine tool industry, with responsibilities at previous positions encompassing service, installation and project management.

"Steve brings over 20 years of experience and service expertise that is invaluable," said Ray Buxton, general manager at Mazak Canada and Technology Center. "His considerable knowledge of the industry and experience in machine installation and repair make him a key asset to our team."



Steve Mackay

Mackay's responsibilities include overseeing machine installations, all warranty and non-warranty machine repair and managing Mazak Canada service personnel and contractors. "Mazak is a true leader in our industry, and I'm very proud to be part of the team," Mackay said. "Everyone wants to be the best at what they do, and working with the best is a good way to make that happen."

Engis

PLANS ILLINOIS EXPANSION PROJECT

Engis Corporation, a leading provider of complete superabrasive finishing solutions for lapping, honing, polishing and grinding, recently announced expansion plans that will nearly double the size of its world headquarters in Wheeling, IL, a Chicago suburb. The company will expand its state-of-the-art

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manufacturing and warehouse facilities and create space for the new Engis Technology Center. The 54,000-sq.-ft., multi-million-dollar expansion will bring total space to 121,500 sq. ft. and enable the company to consolidate all engineering, process development labs, manufacturing, warehousing and administrative offices into a single facility. In conjunction with this project, Engis will add new manufacturing, process development and testing and measurement equipment. Construction will start in April and be complete by fall of 2011. "This expansion demonstrates our long-term commitment to customers as a leading-edge provider of superabrasive solutions," says Stephen Griffin, president of Engis Corporation. "For example, new automated manufacturing equipment will enable us to increase our ability to support global markets, while the Engis Technology Center will enhance our capability to develop turnkey manufacturing solutions. It also demonstrates our commitment to keep and generate future jobs in Wheeling and in the United States."



ABA-PGT

AWARDED ISO TS 16949 AUTOMOTIVE CERTIFICATION

ABA-PGT Inc., a producer of high-precision tooling and precision-molded plastic gears, has been awarded the ISO TS 16949 Automotive Certification. ABA-PGT currently provides a variety of plastic gear solutions for automotive applications



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Manufacturing Institute

RELEASES ROADMAP FOR EDUCATION REFORM

The Manufacturing Institute (the Institute), the non-profit affiliate of the National Association of Manufacturers (NAM), has released a comprehensive blueprint for education reform designed to develop the 21st century talent critical to U.S. manufacturing and global competitiveness. The Roadmap to Education Reform for Manufacturing lays out six principles

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for innovative reform, including moving to competency-based education; establishing and expanding industry-education partnerships; infusing technology in education; creating excitement for manufacturing careers; applying manufacturing principles like "lean" to reduce education costs; and, expanding successful youth development programs.

"These principles can and should be readily applied in current federal and state legislative and budget deliberations," said Emily DeRocco, president, The Manufacturing Institute. "Building an educated and skilled workforce is one of the most significant actions we can take to ensure U.S. leadership in manufacturing."

Research by the Manufacturing Institute has shown that innovation is the greatest driver of success for U.S. manufacturers and that a skilled and educated workforce is the single most critical element of innovation capacity. A skilled workforce is also the hardest asset to acquire; during the height of the last recession, 32 percent of manufacturers cited difficulty finding skilled workers.

The roadmap is a result of the December 1, 2010 National Manufacturing Talent Development Roundtable, hosted by NAM and the Institute, where manufacturing executives, education officials and thought leaders gathered to provide input on a national strategy to reform education in support of U.S. manufacturing. Participants reviewed and applied some of the foremost research and writings on education reform to design an integrated strategy that will enable the education system to develop a smart, safe, and sustainable 21st century manufacturing workforce.

"Manufacturers from across the country and in all sectors have engaged their energy, time, and resources to lead efforts in their communities and states to ensure a highly skilled and educated workforce," said DeRocco. "Manufacturers look to address deficits in the education system the same way they look to improve and expedite their supply chain. We have partnered with the disruptive innovators in education to develop strategies to address each critical choke point along the education continuum, ultimately to develop and advance the new workforce that will keep us competitive in the complex global economy."

AMB 2012

WANTS TO BUILD ON 2010 TRADE SHOW

More visitors, an increasingly international character, a top-

quality accompanying program: The International Exhibition for Metal Working (AMB 2012) has set its sights high. When it opens (September 18-22, 2012 in Stuttgart), it wants to surpass the great success of 2010 where more than 1,300 exhibitors and 86,000-plus visitors came to the exhibition for metal working. "Registration has started and we are receiving requests for placements every day," explains Sengül Altuntas, project manager for machine tools at AMB. The response to AMB 2010 was overwhelming, with regard to both exhibitors and visitors. There was talk of the best AMB of all time. "AMB has finally developed to become the leading European trade fair for the machine tool and precision tool industry in even years," states Gunnar Mey, project manager for precision tools and peripherals.

The international character of the exhibitors was shown by the fact that 20 to 25 percent came from abroad, while the proportion of foreign visitors increased from seven to eleven percent. They came from 80 countries, a new record and an indication that AMB is also gaining in importance internationally. The visitors from Germany and abroad were primarily from the mechanical engineering sector, followed by the metal working and processing industry, automobile industry/vehicle construction, tool construction and mold making, as well as metal construction enterprises. At 38 percent, the group of visitors working in manufacture and production was by far the largest. But members of company management, developers, designers, planners and planning engineers were equally represented. They all found solutions at AMB for their manufacturing problems, and were able to gain a comprehensive overview of the status quo in metal-cutting processes and the associated precision tools. The main focus was on milling machines, lathes and automatic lathes, machining tools, chucking tools, CAD, CAM, CAE, software, grinding machines, workpiece and tool handling.

Fully booked halls are again expected at AMB 2012, with more than 1,300 exhibitors on an exhibition area of 105,000 square meters. Top experts from the promotional supporter associations for AMB—the Precision Tools Association in the VDMA (German Engineering Federation), the VDMA Software Association and the VDW (German Machine Tool Builders' Association)—will ensure technical input. Furthermore, an immeasurable advantage for exhibitors and visitors is the location of Messe Stuttgart directly beside Stuttgart Airport and the A8 motorway, the main route between Munich and Frankfurt. For more information, visit www.messe-stuttgart.de.

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