

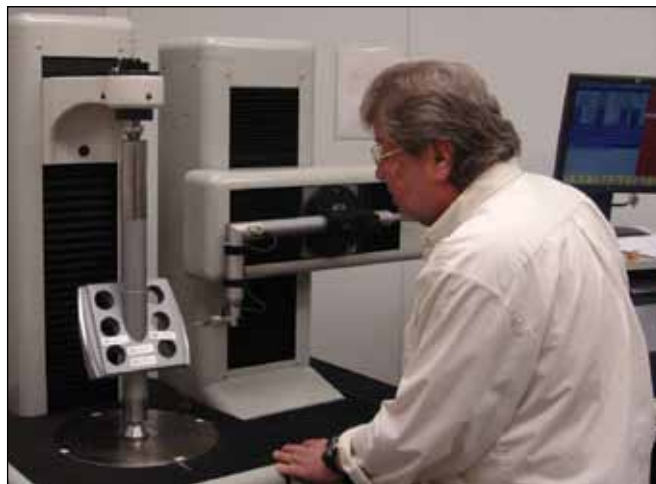
# Gleason-M&M Calibration Lab

## COMPLETES A2LA ASSESSMENT

The Gleason-M&M Precision Systems' Calibration Lab has received accreditation to ISO/IEC 17025 following a successful recertification assessment by the American Association for Laboratory Accreditation (A2LA). This is the seventh consecutive year the lab has achieved this certification, and it has not been granted to any other lab for gear and spline measurement, according to Gleason's press release.

"Most of the lab's work involves calibration of master gears and spline gauges," says Edward Lawson, chief metrologist and program leader at Gleason-M&M. "Periodic recertification is important because normal wear and tear on these masters can lead to false rejection of production parts."

The lab also calibrates reference involute, lead and pitch masters that are used worldwide to calibrate and verify gear inspection instruments. The A2LA accreditation includes the Gleason-M&M Precision Field Service organization, which provides calibration services for all makes and models of gear involute profile and lead measuring instruments. Following ISO 18653 methods, this procedure involves estimation of U95 measurement uncertainty as the preferred method for instrument calibration and evaluation. Lawson



**The Gleason-M&M Precision Systems calibration lab is the only A2LA-accredited lab in the United States for gear and spline measurement.**

says that measurement uncertainty methods are essentially equivalent to common SPC methods, except as applied to measurement operations. The resulting calibration report provides data that helps the user understand and give due consideration to the reliability of gear and spline measurements.

Gleason-M&M welcomes visitors to this facility in suburban Dayton, Ohio. Lawson says, "None of the lab's services are more important than sharing our experiences with customers."

For more information or to arrange a visit, call (800) 237-5433.

# British Gear Association

## ANNOUNCES TWO RESEARCH PROJECTS

The first of two ongoing research projects the British Gear Association (BGA) is working on focuses on reducing the micropitting wear rate and increasing the micropitting threshold stress in gears. The previous two phases of this project enable BGA consortium members to gain a better understanding of the micropitting phenomenon in gears. The next phase will concentrate on investigating the most influential variables linked to micropitting, using back-to-back rig testing. Key areas for investigation include surface

engineering (coatings, superfinishing, shot peening), surface texture, lubrication and materials.

The second BGA project focuses on materials for enhanced gear bending fatigue performance. This project is a continuation of a series of research projects aimed at improving the fatigue properties of gears, which dates back to the mid-1990s. The latest phase will be strongly materials-focused and will concentrate on evaluating gear tooth bending fatigue strength using single-tooth pulsator testing, as has been used in previous phases of the project. The variables to be investigated include the base steel type, heat treatment method and post heat treatment processing.

BGA is actively seeking additional consortium members. For further information about these projects, contact Andy Harry, at BGA, by phone: + (44) 01283 51 5521, or e-mail: [andy@bga.org.uk](mailto:andy@bga.org.uk).

# Kahraman

PRESENTED 2009 ALUMNI AWARD



**From left to right: E. Gordon Gee, Ohio State University president, Dr. Ahmet Kahraman, Joseph A. Alutto, provost, and Archie Griffin, president of the OSU Alumni Association.**

Dr. Ahmet Kahraman was recently awarded the 2009 Alumni Award for Distinguished Teaching from the Department of Mechanical Engineering at The Ohio State University.

Kahraman joined Ohio State in 2003 after working at the University of Toledo as an associate professor and director of the Center for Gear Research. During his tenure at Ohio State, he has taught numerous courses on the dynamic behavior of mechanical systems. In addition, he serves as the director of the Gear and Power Transmission Research Laboratory. Prior to becoming a teacher, Kahraman worked for ten years as a researcher.

Award winners are nominated by current and previous students as well as their colleagues. Kahraman will receive a cash award, an increase to his base salary and will be inducted into the University's Academy of Teaching. His selection marks the second year in a row that a Mechanical Engineering faculty member has been honored with this award.

April 6–7. Set up as a production inspection facility with metrology systems in a support role, the two-day event offered visitors demonstrations on palletizing applications and investigative metrology work.

The official ribbon cutting ceremony took place April 6. "The goal in opening this 3,800-square-foot facility in Irvine, CA is to get closer to our customers in this region while providing local support in growing markets," says Drew Shemenski, manager of the West Coast Tech Center. "Not only does this facility allow us to offer traditional hardware support, but it can also help us focus on a higher level connecting machines together through software to manage inspection requirements and data."

The center offers a range of metrology technology including optical, touch scanning, CT X-ray and measuring software. It also has a variety of surface form and geometry systems, in-house measuring services, software training and application support.

## Romax

**APPOINTS CHIEF  
OPERATING OFFICER**

Romax Technology Limited, a technical consultancy providing design and analysis services for gearboxes, bearings and drivetrains, announces the appointment of Graeme Walford to the position of chief operating officer.

Walford, who assumed his position at the beginning of 2010, will support CEO Dr. S.Y. Poon with his future ambitious growth plans for the company. Walford graduated from Loughborough University with a degree in mechanical engineering. He began his career with Rolls-Royce before moving to MascoTech as engineer-



**Graeme Walford**

# Carl Zeiss

**OPENS  
WEST COAST TECH CENTER**

Carl Zeiss Industrial Metrology celebrated the grand opening of the West Coast Tech Center in Irvine, CA on

ing director. In 1999, Walford joined GKN Driveline where he set up the new GKN Torque Technology business unit.

"There are tremendous opportunities for Romax, not only within its core business streams, automotive and wind energy, but in many other new areas," Walford says. "I hope that through the experience and knowledge I have gained throughout my career, I can help Romax in the next phase of their development, maintaining leadership throughout their core business, but also spreading expertise into new areas, which I believe is the next big step for Romax in the future."

## U.S. Gear Tools

### BRINGS TWO MANAGERS ON BOARD



Adam Lambert

U.S. Gear Tools, Inc. recently announced that Adam Lambert has joined the company as its new vice president and general manager. Lambert, a longtime senior manager with the Anderson Cook Company, has more than 25 years of spline rolling machine manufacture, tool design and manufacturing management experience.

"Adam brings us the background and experience we were looking for to manage and operate our tool design and manufacturing facility located in Swannanoa, NC," says George Simon, president of U.S. Gear Tools. "While some in our market are retrenching and shrinking, we are aggressively moving to expand our presence and capabilities in the global marketplace for spline and thread roll tooling."

U.S. Gear Tools designs and manufactures precision tooling for the spline and thread rolling marketplace. It also designs and manufactures gear hone tooling and gear shaver tooling. U.S. Gear Tools and its sister company Roto-Flo, a spline and thread roll machinery company, combine to supply integrated solutions to the spline and thread rolling industries throughout the world.

Mike Callesen has also joined U.S. Gear Tools as sales and marketing manager. Callesen has over 30 years' experi-

**continued**

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ence in the sales and application engineering of spline and thread rolling tools and machines, serving most recently as vice president of sales for the Anderson Cook Company. He will be located at the parent company's headquarters on Hoover Road in Detroit.

"We are excited to have attracted one of the most experienced and notable sales executives in this industry,"

Simon says. "Mike is widely known throughout the industry for his comprehensive, on-the-floor understanding of the spline and thread rolling process, a critical aspect of selling an engineered product such as spline and thread roll tooling. This hire, along with other recent investments in personnel and equipment, further supports our strong commitment to serving the roll forming marketplace by building a world-class organization for spline and thread roll tools and machinery."



**Mike Callesen**



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## Solar CEO

### RECOGNIZED AS SMALL BUSINESS EXPORTER

The U.S. Small Business Administration's (SBA) Philadelphia District Office awarded William R. Jones the 2010 Eastern Pennsylvania and Region Three Small Business Exporter of the Year. Jones is chief executive officer of Solar Manufacturing Inc. of Souderton, PA.

Jones was nominated for the award by Patricia J. Kratz, president of Univest National Bank and Trust Co. The award is presented on a district, regional and national level. Region Three consists of Pennsylvania, Delaware, Maryland, Virginia, West Virginia and Washington, D.C. National Small Business Week was observed in Washington, D.C. May 23-25. It is an annual recognition of the small business community's contribution to the American economy.

Dave Dickson, SBA's Philadelphia district director, presented the award to Jones on May 6, at the annual SBA Day at the Ballpark. "Every year, the SBA's Philadelphia District Office awards the Small Business Exporter of the Year award to an individual who uses creative overseas marketing strategies and effective solutions to export-related problems to grow their business," Dickson says. "As this year's award winner, William Jones more than appropriately joins the roster of award winners from previous years and across the country whose enterprising initiative has benefited not only their own business and employees, but the community at large. With this award, the SBA applauds Mr. Jones for his exemplary contributions to this nation's business community and economy."

## AFC-Holcroft

### RELOCATES EQUIPMENT

The dismantling, relocation and reinstallation of multiple pusher furnace lines and companion equipment was ordered by an automotive supplier customer of AFC-Holcroft's. The equipment will be moved from the United States first to AFC-Holcroft's licensee MATTSA, in San Luis Potosi, Mexico, where it will be cleaned, inspected, rebuilt, cold-cycled and repainted before being sent to the customer's facility in Mexico.

A total of three furnaces plus companion equipment and accessories will be relocated in this project. "A move of this scope is not something to be taken lightly," says Mark Johnston, sales engineer at AFC-Holcroft. "There are, for example, international logistical and import/export complications, as well as language differences to take into consideration. AFC-Holcroft has a great deal of experience with these types of moves, having done many in recent years. Having local support in Mexico from our partner MATTSA will benefit us greatly in this project."

Several new pieces of equipment are part of the order, including loaders, pre-washers, preheat furnaces, 13,500 cfh E-Z Series Endothermic Generator, oil cooling systems and other accessories. AFC-Holcroft will provide formal class-

**continued**

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GT10

## NEWS

room instruction and basic operator training to the customer's operators, maintenance and administrative personnel. The operators will be involved in the start-up and dry-out phase of the reinstallation. The relocation process began in March 2010 and is scheduled to be completed by December 2010.

## SAE

### AWARDS OUTSTANDING CONTRIBUTION

Jack Champaigne, president of Electronics Inc. and publisher of *The Shot Peener*, received an Outstanding Contribution Award from SAE International at the 2010 SAE World Congress in Detroit in April.

The annual award was established in 1953, and it recognizes outstanding service and leadership in the technical standard boards of the organization for engineering professionals in automotive, aerospace and commercial vehicle fields.



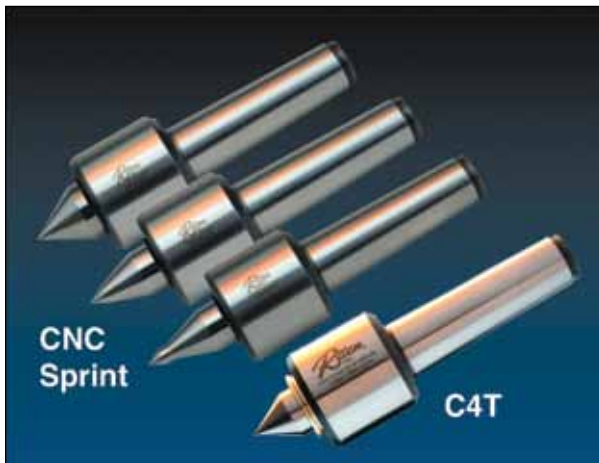
**Jack Champaigne**

Champaigne has been a member of the SAE International Materials, Processes and Parts Council since 1986, and he currently serves as committee chairman of the SAE Surface Enhancement Committee, which is responsible for developing and revising surface treatment standards used in the manufacture of metal components. Under his leadership, the committee has updated and created metal surface treatment standards that address rapid advances in technology and special applications for the automotive industry.

Electronics Inc. (EI) manufactures and distributes products that improve the quality and control of shot peening.

# Applied Technical Products

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Riten workholding products are now represented in the Carolinas, Virginia and West Virginia by Applied Technical Products Inc. (ATP), a manufacturer's representative agency established in 2002.

ATP represents six cutting tool manufacturers and four workholding products companies. The agency is headed by Tom Wright, who has more than 25 years of sales and training experience in the metalworking industry. He has held outside sales positions with several machine tooling companies and has extensive knowledge of current machining technology. He operates from southwestern Virginia and can be reached at [twright4321@comcast.net](mailto:twright4321@comcast.net).



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