

September 18–20 – SAE 2012 Aerospace Manufacturing and Automated Fastening Conference and Exhibition.

Fort Worth Convention Center, Fort Worth, Texas. The exhibition will provide a forum for the aerospace community to present and discuss current and future challenges, opportunities, and requirements of next-generation aircraft R&D, products, and systems. Technical sessions, lively panel discussions and keynote presentations will be the highlight of this event that is essential for engineers, scientists, designers, program managers and operators in industry as well as government and research facilities. Topics include: automated fastening/assembly and tooling, composites materials and processing, information technology, lean manufacturing and supply chain management, ferrous/nonferrous metals and processing, structures, automated manufacturing and sustainability. For more information, visit www.sae.org.

October 7–11 – Materials Science & Technology Conference & Exhibition.

Pittsburgh, Pennsylvania. MS&T brings together professionals from virtually every field of materials science: metals, polymers, ceramics and composites. Attendees will have the opportunity to reach potential customers in industries like automotive, aerospace, instrumentation, medical, oilfield and energy. The MS&T partnership of four leading materials societies – ACerS, AIST, ASM and TMS – brings together scientists, engineers, students, policy makers, suppliers and more to discuss current research and technical applications, and to shape the future of materials science and technology. Since corrosion remains a relevant topic to materials, NACE International will again co-sponsor MS&T. Areas of interest include biomaterials, iron and steel, ceramics, materials performance, nanotechnology and processing and product manufacturing. For more information, visit www.matscitech.org.

October 15–19 – AME Chicago 2012. Sheraton Chicago Hotel and Towers. The Association for Manufacturing Excellence (AME) has a long track record for finding and convincing some of the best manufacturing practitioners from around the world to share their lean practice experiences. More than 60 leading presenters will be on hand to discuss customer focus, process sustainment, continuous improvement, material flow and other lean practices and strategies. Manufacturing tours highlighting some of the best lean and six sigma operations in and around the Chicago area include Caterpillar, Bimba Manufacturing, Whiting Corporation, S&C Electric Company and Winzeler Gear. Workshop topics include maintenance management, lean behaviors, training within industry, lean business simulation and lean tools for the office. Six keynote speakers will be featured at the conference including Mike Abrashoff and Jason Jennings. For registration information, visit www.ameconference.org.

October 22–24 – 3rd Annual American Manufacturing Strategies Summit 2012. McCormick Place, Chicago. The Manufacturers Alliance/MAPI Survey on the Business Outlook shows ongoing expansion of manufacturing in the United States, although the speed of growth could be slowing. As the American economy continues to recover, it is critical that manufacturers adopt new processes to enable more effective production and order fulfillment. Researched and validated by senior industry advisory board, AMS 2012 will provide leading case

studies, stimulating debate on the future of manufacturing, and valuable networking opportunities for you to share information and find future business partners. Event features include stream sessions, case studies, pre-scheduled one-to-one meetings, discussion tables, workshops and networking opportunities. Topics include reshoring initiatives, retaining the skilled workforce, optimizing the global footprint of worldwide operations, improving performance, productivity, and profitability through operational excellence and lean programming, developing the leadership tools that drive success in new programs and seeking innovations in tools, tactics and technologies. For more information, visit www.manufacturing-summit.com.

October 28–30 – AGMA Fall Technical Meeting.

Hyatt Regency Dearborn, Dearborn, Michigan. The FTM highlights the latest research in the industry from experts all over the world on topics including micropitting, gearbox design, materials and manufacturing. The conference is designed for attendees to listen to all the presentations and take home practical information that may ultimately affect your company's bottom line. In addition, the meeting provides invaluable networking opportunities between sessions and in the evenings to interact with colleagues and meet new experts in the industry. Programs, as well as peer-reviewed technical papers, address lubrication and components, gear drive applications, manufacturing and inspection, gear design issues and materials and heat treatment. For more information, visit www.agma.org.

November 13–15 – Methods, Practices, Application and Interpretation for the Design Engineer.

Hard Rock Hotel and Casino, Las Vegas. Raymond Drago, chief engineer–gear technologist, Drive Systems Technology, Inc., will instruct attendees on the methods used to manufacture and inspect gears, including external and internal spur, single and double-helical gears, as well as bevel and worm gears. A description of each basic manufacturing and inspection method is provided. Both the methodology and underlying theory are explained. The seminar also covers the methods of specifying the data required to control both the manufacturing and inspection processes on an engineering drawing and in a specification. This includes the data to be defined and its presentation on the engineering drawing. It is critical that the design engineer understand the manufacturing and inspection processes that will be employed so that the intent of the design can be successfully translated into practice. Most gear inspection centers on gear tooth geometry; however, various nondestructive and destructive tests (such as ultrasonic, magnetic particle, acid etch, etc.) are also required to ensure the quality of the basic gear material and the results of various heat treatment procedures. In this seminar the basics of a variety of these tests will be covered, including their underlying theory, application techniques and, most importantly, interpretation of the resultant data. This seminar aims to narrow and possibly close the information gap by providing gear design engineers with a good foundation in both manufacturing and inspections processes and procedures. For more information, visit www.agma.org.