

**September 12–17—IMTS 2016** McCormick Place, Chicago, Illinois. The International Manufacturing Technology Show is one of the largest industrial trade shows in the world, featuring more than 2,000 exhibiting companies and 114,147 registrants. This year's show is expected to be one of the largest IMTS events at 1.3 million net square feet with a full line up of exhibitors showcasing the latest technology. Co-located shows include Motion, Drive & Automation North America, Industrial Automation North America, Surface Technology North America, Comvac North America and Industrial Supply North America. For more information, visit [www.imts.com](http://www.imts.com).

**September 13–17—AMB 2016** Stuttgart, Germany. AMB 2016 has posted record figures for the previous event in 2014. The promotional supporters—the German Machine Tool Builders' Association (VDW) and the German Machine Tool and Plant Builders' Association (VDMA) with the Associations for Precision Tools and Software—contribute to this success. The exhibition areas of AMB Stuttgart comprise metal-cutting and metal-removing machine tools, precision tools, measuring systems and quality assurance, workpiece and tool handling technology, robots, industrial software & engineering, components and accessories. The exhibitors includes Chiron-Werke, DMG Mori Seiki, EMCO, GF Machining Solutions, Gühring, Hahn+Kolb, Ilg + Sulzberger, Index-Werke, Iscar Germany, KASTO Maschinenbau, Komet Group, LMT Tool Systems, MAPAL Präzisionswerkzeuge, Nagel Werkzeug-Maschinen, Paul Horn, Sandvik Tooling Deutschland and Yamazaki Mazak Deutschland, to name just a few. For more information, visit [www.messe-stuttgart.de](http://www.messe-stuttgart.de).

**September 19–20—IHEA Seminars** Cincinnati Marriott Rivercenter, Covington, KY. This Fall, the Industrial Heating Equipment Association (IHEA) is proud to offer the 47th Combustion Seminar, the ever-popular Safety Standards Seminar and the revised Induction Seminar. The concurrent seminars will be held along with a joint Tabletop Exhibition and Reception on Monday, September 19. The tabletop exhibition features companies from all the technologies represented throughout the three seminars. Registration fees for each seminar include all seminar handout materials, the Monday evening Reception with Tabletop Exhibition, and breakfast and luncheons on both days. Upon completion of the course, seminar attendees are awarded a certificate of completion. For more information, visit [www.ihea.org](http://www.ihea.org).

**September 19–21—2016 Gear Failure Analysis** Big Sky, Montana. The Gear Failure Analysis seminar provides participants the skills necessary to diagnose gear failures and prescribe remedies. This presentation covers six classes of gear tooth failure: overload, bending fatigue, hertzian fatigue, wear, scuffing and cracking. Each failure mode is illustrated by color slides and field samples because of the magnification inherent in slide projection. However, it is important to examine the field samples because there is no substitute for hands-on experience that students experience. Working in small groups, students participate in a hands-on practical exam using field samples and a case study. Instructors include Robert Errichello and Jane Muller. For more information, visit [www.agma.org](http://www.agma.org).

**September 19–23—2016 Basic Training for Gear Manufacturing** Students learn the fundamentals of gear manufacturing in this classroom and hands-on course. In the classroom this course offers training in gearing and nomenclature, principles of inspection, gear manufacturing methods and hobbing and shaping. In the hands-on gear lab, using manual

machines, students can see the interaction between the cutting tool and the workpiece. They understand the process and the physics of making a gear and can apply this knowledge in working with CNC equipment commonly in use. Although the Basic Course is designed primarily for newer employees with at least six months experience in setup or machine operation, it has proved beneficial to quality control managers, sales representatives, management, and executives. Instructors include Dwight Smith, Pete Grossi and Allen Bird. For more information, visit [www.agma.org](http://www.agma.org).

**September 26–29—Gear Dynamics and Gear Noise Short Course** Ohio State University. The purpose of this unique short course is to provide a better understanding of the mechanisms of gear noise generation, methods by which gear noise is measured and predicted and techniques employed in gear noise and vibration reduction. Over the past 37 years more than 1,950 engineers and technicians from over 360 companies have attended the Gear Noise Short Course. A popular feature of this course is the interspersing of demonstrations with lectures. The extensive measurement and computer software capabilities of the Gear and Power Transmission Research Laboratory allow instructors to do this in a simple and non-commercial manner. The Case History Workshop (Day 3) allows course instructors and participants to interact and to discuss gear noise and dynamics case histories presented by course attendees. Throughout the course, laboratory and computer software demonstrations are used to illustrate gear noise measurement and analysis techniques. The facilities of the Gear and Power Transmission Research Laboratory and the Acoustics and Dynamics Laboratory are used for these demonstrations. Course instructors include Dr. Donald Houser and Dr. Rajendra Singh. For more information, visit [www.nvhgear.com](http://www.nvhgear.com).

**September 26–28—MINExpo International 2016.** Las Vegas Convention Center. MINExpo boasts 12 indoor and outdoor halls and more than 1,800 companies involved in the global mining industry. Opening sessions allow the industry to come together to debate global challenges, market fluctuations and the future of mining. 20+ education sessions will tackle the most timely and pressing issues in mining today. Resources include exploration, mine site development, open pit mining, underground mining, smelting and refining, processing and preparation and reclamation. Attendees will see live demonstrations they can use today and emerging technology for tomorrow. For more information, visit [www.minexpo.com](http://www.minexpo.com).

**October 19–21—2016 Global Forecasting & Marketing Conference** Miami, Florida. AMT strives to provide companies with the tools they need to expand their business. By bringing together leading industry experts, economic forecasts and marketing information, companies will have the resources they need to identify new opportunities and areas of growth in a dynamic, ever-changing market, positioning them as tomorrow's industry leaders. Knowledge of the current and coming economic environment, as well as the MT industry and its customers, both in the U.S. and globally, is the key to strategic planning. Those interested can gain this data and accompanying analysis by purchasing the Global Forecasting & Marketing Package (GFMP). For more information, visit [www.amtonline.org](http://www.amtonline.org).