

July 19–20 – AWEA Regional Wind Energy Conference – Northeast

Portland, Maine. AWEA's next regional conference will focus on the critical issues that will help advance wind power's growth issues in the northeastern U.S. The event will also provide attendees with a comprehensive view of both land-based wind power development and the nascent efforts to develop offshore wind power off the region's coast. Attendees will analyze where wind power stands today in the northeast and the critical issues specific to the region, evaluate the market and policy in the region, specifically the various growth strategies and demand drivers, detail the critical issues affecting offshore wind development, siting and wildlife and transmission infrastructure needs, as well as manufacturing and supply chain opportunities in the region and examine the utility issues that can secure cost-effective wind energy supply, jobs growth, and economic development opportunities. For more information, visit www.awea.org.

July 25–29 – CMSC 2016

Nashville, Tennessee. The Coordinate Metrology Society Conference (CMSC) provides a professional venue where ideas, concepts and theory flow freely among participants. The educational atmosphere encourages attendees to network and learn about the latest innovations in the field of portable 3D industrial measurement technologies. The event includes technical presentations by industry experts, advanced workshops and seminars along with an exhibition hall filled with the world's leading providers of metrology systems. The keynote speaker at the event will be Dr. Ed Morse, professor at UNC Charlotte, discussing the work of the PrecisionPath Consortium for Large Scale Manufacturing. CMSC 2016 includes two scheduled tours one of Nissan's Smyrna Vehicle Assembly Plant as well as Oaklands Mansion, the plantation home of the Maney family that reflects the history of Murfreesboro, Tennessee. For more information, visit www.cmsc.org.

August 2–4 – Ipsen 2016 U Classes

Cherry Valley, Illinois. These three-day courses provide attendees with a broad overview of furnace equipment, processes and maintenance, as well as a hands-on approach to learning while receiving qualified tips directly from the experts. Throughout the course, attendees are able to learn about an extensive range of topics - from an introduction to vacuum and atmosphere furnaces to heat treating, furnace controls, subsystems, maintenance and more. They will also be able to view the different furnace components first-hand while learning how they affect other parts of the furnace and/or specific processes, take part in one-on-one discussions with Ipsen experts, participate in a leak detection demonstration and tour Ipsen's facility. For more information, visit www.ipse-nusa.com/aftermarket-support/ipsen-u.

August 9–11 – PC Applications in Parallel Axis Gear System Design and Analysis

UWM School of Continuing Education, Milwaukee, Wisconsin. Attendees will gain an understanding of parallel axis gear design, and learn to use the software tool, *PowerGear*, to analyze the main parameters involved (a student version of the software is included in the price of the course). This course covers the basics of gear load capacity evaluation from a theoretical viewpoint and uses the PC as a tool to apply these theoretical concepts. Attendees will understand durability, strength and scoring concepts, discuss typical sets of problematic design parameters and experience hands-on design perspectives through group projects. For more information, visit <http://uwm.edu/sce/courses/pc-applications-in-parallel-axis-gear-system-design-and-analysis/>.

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.

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.

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.

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.