

February 10–12 – Gear Materials: Selection, Metallurgy, Heat Treatment and Quality Control.

Sheraton Sand Key Hotel, Clearwater Beach, Florida. The presenters have designed gear systems as a collaborative effort, together, for more than 40 years. This seminar is their effort to convey both their experience in the process of working as a team and the expertise they have developed for the complete design of geared systems over these many years. Instructed by Raymond Drago and Roy Cunningham from Drive Systems Technology, this course will cover material selection, heat treating processes, engineering development, inspection and more. Gear design engineers, management, metallurgists, lab techs, QA engineers, furnace design engineers and equipment suppliers would benefit from the course work. For more information, visit www.agma.org.

February 25–27 – AeroDef Manufacturing 2014.

Long Beach, California. AeroDef Manufacturing is the leading technical summit and exposition for the aerospace and defense manufacturing industry. Produced by SME, in partnership with industry OEMs, its mission is to foster innovation across the extended enterprise to reduce costs, expedite production times and maintain manufacturing competitiveness in the global economy. AeroDef showcases the industry's most advanced technologies across an innovative floor plan designed to facilitate interaction and business relationships between exhibitors and buyers looking for integrated solutions. Keynote speakers and panelists come from the highest level of government and business and will discuss topics on 3-D manufacturing, cybersecurity, workforce development, globalization and innovation. AeroDef's show floor is divided into Technology Zones reflecting the entire manufacturing enterprise – from design to manufacture to sustainability. At the center of it all is The Deck – the hub of the expo show floor and host to morning keynote presentations, daytime panel discussions, and afternoon networking receptions. For more information, visit www.aerodefevent.com.

February 27–March 1 – IPTEX 2014. Bombay Exhibition Center, Mumbai, India. The 3rd International Power Transmission Expo is dedicated to the gear and power transmission industries. India is rapidly turning into a global manufacturing hub, thanks to the country's manufacturing and engineering capabilities, vast pool of skilled expertise and its size. These qualities offer it a strategic advantage for the manufacturing segment. A large number of international companies in varied segments have already set up a manufacturing base in India and others are following suit. Exhibitors include those involved in gear processing equipment, cutting tools, gear inspection and testing instruments, chains and belt drives. Key participants include Gleason and Klingelberg. IPTEX is supported by the AGMA and its media partner is *Gear Technology India*. GRINDEX, an exposition on grinding and finishing processes, will run concurrently with IPTEX. GRINDEX is designed to meet the emerging demand for precision driven applications as manufacturing needs new technology and solutions. For more information, visit www.iptexpo.com.

March 5–6 – Lean Transformation Summit 2014.

Orlando, Florida. Continuously improving management systems allow companies to provide better quality, more reliable delivery, better service and lower costs. The summit provides attendees with relevant, real-world learning sessions to enhance their lean efforts. Plenary sessions offer feedback from organizations that have developed successful lean programs including Cardinal Health, Food Bank for New York City and GE. Breakout sessions follow that give a firsthand account of the challenges faced during the lean transformation. Additionally, small interactive learning sessions allow attendees to reflect on applications and methodologies on the leading edge of lean thinking. For more information, visit www.lean.org.

March 11–13 – Gearbox CSI: Forensic Analysis of Gear and Bearing Failures.

Sheraton Suites, Philadelphia Airport, Philadelphia. Determining the cause of a failure in a gearbox is like a "who done it" mystery. What caused the failure? The bearings, a gear, the lubrication or a shaft problem? Where do you start, and how can you tell? This seminar helps gear designers gain a better understanding of various types of gears and bearings. Learn about the limitations and capabilities of rolling element bearings and the gears that they support so you can properly apply the best gear-bearing combination to any gearbox, whether simple or complex. A certificate will be awarded upon completion of the seminar. For more information, visit www.agma.org.

March 17–20 – MODEX 2014. Georgia World Congress Center, Atlanta. MODEX 2014 is the industry's newest expo for the manufacturing and supply chain industries. At MODEX attendees will meet 800 of the leading providers in the supply chain industry. The MODEX Supply Chain Conference includes 150 sessions with keynote presentations from Edward H. Bastian, president of Delta Air Lines; former Walmart CEO Lee Scott; and Scott Sopher, principal with Deloitte Consulting. Some of the areas of interest include: material handling equipment, packaging equipment, dock and warehouse equipment, supply chain management and education. For more information, visit www.modexshow.com.

April 7–11 – MACH 2014. Birmingham, United Kingdom. MACH is a showcase for advances in the manufacturing industry by the Manufacturing Technologies Association (MTA), a U.K. based trade association dealing specifically with engineering based manufacturing. It is a biannual exhibition which brings together innovations and developments from the manufacturing technologies sectors under one roof. The machine tool industry, not surprisingly, is well represented with the likes of Mills CNC, DMG Mori Seiki and Yamazaki Mazak. Tooling companies include Dormer Tools, WNT and Guhring. Metrology also has a strong presence featuring Carl Zeiss, Nikon and Renishaw. For more information, visit www.machexhibition.com.