

**September 7-9—Gear Manufacturing Troubleshooting Course.** Anaheim, CA. This training school for gear manufacturing is a basic course offered by the Gear Consulting Group in regional versions throughout the year to reduce the time employees spend out of the office while training. Another session this year will take place in Ontario, Canada, date to be announced. Instructors Geoff Ashcroft and Ron Green teach participants both theory and practical aspects of gear manufacturing while imparting knowledge of everyday problems and understanding how to think through troubleshooting. Tuition is \$750 and includes a reference manual and certificate of completion from AGMA. For more information, call (269) 623-4993, or e-mail [gearconsulting@aol.com](mailto:gearconsulting@aol.com).

**September 15-17—Gear Expo.** Indianapolis. For the first time since 1995, the gear industry's premier trade event returns to Indianapolis featuring five pavilions on the show floor: aerospace, breakdown, energy, powder metal/plastics and tooling. AGMA anticipates more than 175 exhibitors and 3,000 attendees from 43 states and 36 countries. This year's Gear Expo is co-located with the Heat Treating Society's Conference and Exposition, which is expected to add another 3,000 attendees and 180 exhibitors. For more information, go to [www.gearexpo.com](http://www.gearexpo.com) or visit our **Gear Technology Gear Expo Showroom** at [www.geartechnology.com/gearexpo](http://www.geartechnology.com/gearexpo).

**September 15-17—SME Gear Manufacturing Conference.** Indianapolis Convention Center, Indianapolis. This SME conference within Gear Expo runs Tuesday and Wednesday from 9 a.m. to 4 p.m. Features include a full lineup of 14 speakers and diverse topics from calibration and measurement uncertainty with Edward Lawson of Gleason-M&M Precision Systems Corp. to tool resharpening procedures for maximizing tool life with Ken Nemec of American Broach and Machine. Other topics include carbon dioxide cooling for cutting gears, coatings, metalworking fluids, gear metals, process optimization and developments in the wind industry. For more information, visit [www.sme.org/gears](http://www.sme.org/gears).

**September 28-30—Gear Failure Analysis Seminar.** Big Sky Resort, Big Sky, MT. AGMA's Technical Academy and Robert Errichello of GEARTECH present students with complete knowledge of gear failure, what to watch out for and how to resolve problems. The seminar was expanded this year to two full days of discussion plus a half-day workshop for students to investigate and solve real gear failure scenarios. Errichello uses lectures, slide presentations, hands-on workshops with failed gears and Q&A sessions. The course is suitable for gear engineers, users, researchers, maintenance technicians and

lubricant experts or managers. Cost is \$895 for AGMA members, \$995 for nonmembers. Register online at [www.agma.org](http://www.agma.org) until August 28.

**September 29-October 1—Aero and Defense Test 09/ITEA Annual Symposium.** Baltimore Convention Center, Baltimore, MD. This annual event for aerospace and defense R&D, test and evaluation and operational test and evaluation features a trade show with approximately 150 exhibitors providing testing, inspection and evaluation software and products. The expo is complemented by a series of technical, business and educational programs that includes the International Test and Evaluation Association's (ITEA) annual symposium, the Society of Manufacturing Engineers' aerospace quality manufacturing conference, the Aerofuel Alternative Fuel and Fuel Cells Symposium and the Global Aircraft Recycling Symposium. For more information, visit [www.aerodefensetest.com](http://www.aerodefensetest.com).

**September 30-October 2—Fundamentals of Gear Design.** UWM School of Continuing Education, Milwaukee, WI. This beginning knowledge course is presented by Raymond Drago and the University of Wisconsin School of Continuing Education. It presents basic modern gear system design and analysis with emphasis on proper selection, design application and use, as opposed to fabrication. Topics include a short history, basic gear nomenclature, types of gears, gear arrangements, theory of gear tooth action and failure modes and prevention. Cost is \$1,095. For more information, contact Murali Vedula, program director, (414) 227-3121 or [mvedula@uwm.edu](mailto:mvedula@uwm.edu).

**October 26-29—Furnaces and Atmospheres for Today's Technology.** Holiday Inn Express, Meadville, PA. This annual event hosted by Seco/Warwick allows industry specialists to present the latest improvements in heat treat furnaces and provide practical information for companies new to heat treating. The format this year has been changed to present information on support technologies and industry trends. Speakers will address the history and progress of the technology while providing information on process development over the past year. Topics include furnace selection and application, fundamentals of heat transfer, nature of vacuum, leased atmospheres, alloy applications, temperature control, heating elements and power control units. Dan Herring, aka the "heat treat doctor" is the keynote speaker. For more information, visit [www.secowarwick.com/F&A.html](http://www.secowarwick.com/F&A.html), or contact Gary Armour at (814) 332-8558 or [garmour@secowarwick.com](mailto:garmour@secowarwick.com).