

October 27-29 – Discover 2015 Florence, KY. Mazak Corporation encourages those involved in the metalworking industry to attend its Discover 2015 technology and education event. Here, the machine tool builder plans to spotlight new technologies and trends that will change how part manufacturers operate, including unconventional ways to drive operational efficiency via additive manufacturing, CNC technology and the Industrial Internet of Things (IIoT) concept. Additive manufacturing is creating a shift in the way engineers and designers think about product development, and Mazak is leading the way with its additive-capable INTEGREX i-400AM. The HYBRID Multi-Tasking machine will make its North American debut at Discover 2015, and attendees will experience how it integrates laser cladding with advanced full 5-axis milling and turning capabilities. Overall, more than 30 of the latest Mazak machine tools will perform real-world cutting demonstrations throughout the event. Applications experts will be on standby during the demonstrations to discuss total manufacturing solutions as well as part-processing improvements with attendees. The company will also offer a series of seminars that will teach attendees the latest metalworking tools, trends and techniques for improved productivity and profitability. For more information, visit www.MazakUSA.com/DISCOVER2015.

October 27-30 – PTC Asia 2015 Shanghai New International Expo Center, China. PTC Asia is the largest annual industrial event in power transmission and control in Asia and the second largest in the world. In the exhibition, the debut of new products will illustrate the integration and development of Industry 4.0, highlighting the utilization of eco-friendly materials as an optimal solution to achieving industrial high efficiency and energy conservation. The expo will boast over 90,000 sq. m and 80,000 visitors. Over 15 industries will be included, but PTC will focus on the rail transportation, petrochemical, mining machinery, wind power and food and medicine packing industries in particular. PTC will also be providing over 12 seminars as well as matchmaking services between businesses and potential buyers. For more information, visit www.ptc-asia.com/EN.

October 28-30 – ASME DSCC 2015 Hilton Columbus, Columbus, OH. The Dynamic Systems and Control Conference is the showcase technical forum of the ASME Dynamic Systems and Control Division. It provides a focused and intimate setting for dissemination and discussion of the state of the art in dynamic systems and control research, with a mechanical engineering focus. The 2015 DSCC Technical Program will consist of sessions in all of the usual areas of interest to the Division. In addition, the conference will feature specific technical tracks that uniquely identify this particular DSCC. The location of the conference, in the heart of the Manufacturing and Automotive industries, makes these two areas especially appropriate for special tracks. Other special tracks will include Interplay between Biology/Ecology/Life Sciences and Engineering and Information Technology in Mechanical and Aerospace Engineering. The program will include contributed sessions, invited sessions, tutorial sessions, special sessions, workshops and exhibits. For more information, visit www.asmeconferences.org.

November 3-5 – 2015 Detailed Gear Design - Beyond Simple Service Factors

Hyatt Place, Las Vegas, NV. This course explores all factors that go into good gear design from life cycle, load, torque, tooth optimization, and evaluating consequences. Students should have a good understanding of basic gear theory and nomenclature. The course is designed for gear engineers, gear designers, application engineers, and others who are responsible for interpreting gear design or who want to better understand all aspects of gear design. AGMA members: \$1,395 for first registrant from a company, \$1,195 for additional registrants. Non-members: \$1,895 for first registrant, \$1,695 for additional registrants. For more information, visit www.agma.org.

November 4-5 – Advanced Engineering UK 2015

NEC, Birmingham UK. Integrating multiple show exhibit zones with the UK's largest free-to-attend engineering conference program, Advanced Engineering is where the supply chain meets with visiting engineering and procurement decision makers from OEMs and top tier organizations spanning: aerospace; automotive; motorsport; marine, civil engineering, and more. Whether you are a visitor or an exhibitor, Advanced Engineering will not only provide you with a business forum and supply chain showcase for your own sector, but will also introduce you to new opportunities in industries using related technologies and services. For more information, visit www.advancedengineeringuk.com.

November 13-19 – 2015 International Mechanical Engineering Congress & Exposition

Houston, TX. ASME's International Mechanical Engineering Congress and Exposition (IMECE) is the largest interdisciplinary mechanical engineering conference in the world. IMECE plays a significant role in stimulating innovation from basic discovery to translational application. It fosters new collaborations that engage stakeholders and partners not only from academia, but also from national laboratories, industry, research settings, and funding bodies. Among the 4,000 attendees from 75+ countries are mechanical engineers in advanced manufacturing, aerospace, advanced energy, fluids engineering, heat transfer, design engineering, materials and energy recovery, applied mechanics, power, rail transportation, nanotechnology, bioengineering, internal combustion engines, environmental engineering, and more. For more information, visit www.asmeconferences.org.

December 7-10 – 14th International CTI Symposium

Estrel Hotel, Berlin. The automotive industry is about to change drastically due to energy and CO2 discussion, interconnection and automation. This results in new requirements on drive trains and transmissions with regard to efficiency, comfort, dynamics and safety, which in turn lead to a large variety of competing drive and transmission concepts and to a previously unknown wave of innovations for components and assemblies. It does not only apply to the new electrified drive trains, but also to conventional drive trains and transmissions, which will remain the pillars of drive technology for the time being. For more information, visit www.transmission-symposium.com/en.