

March 5–12—IEEE Aerospace Conference 2022

Big Sky, Montana. The International IEEE Aerospace Conference, with AIAA and PHM Society as technical cosponsors, is organized to promote interdisciplinary understanding of aerospace systems, their underlying science and technology, and their applications to government and commercial endeavors. The annual, week-long conference is set in a stimulating and thought-provoking environment. The 2022 conference will be the 43rd in the series. Plenary sessions feature internationally prominent researchers working on frontiers of science and engineering that may significantly impact the world we live in. Registrants are briefed on cutting edge technologies emerging from and intersecting with their disciplines. Each year, a large number of presentations are given by professionals distinguished in their fields and by high-ranking members of the government and military.

www.aeroconf.org.

March 21–24—Gear Dynamics and Gear Noise Short Course 2022

Columbus, Ohio. 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 40+ years about 2,450 engineers and technicians from over 380 companies have attended the Gear Noise Short Course. The course is of particular interest to engineers and technicians involved in the analysis, manufacture, design specification, or utilization of simple and complex gear systems. Industries that find this course helpful include the automotive, transportation, wind-energy, process machinery, aircraft, appliance, general manufacturing, and all gear manufacturers. The course material is covered in such a way that the fundamentals of gearing, gear dynamics, noise analysis and measurements are covered first. This makes the course appropriate to the gear designer with minimal knowledge of noise and vibration analysis as well as to the noise specialist with little knowledge of gears.

www.nvhgear.org.

March 22–24—Gearbox CSI

Concordville, PA. A good understanding of individual failure modes and the failure scenarios that led to the actual system failure is an essential skill to designing gear/bearing systems that will operate properly for their full design life. In this course, instructors will define and explain the nature of many gear and bearing failures and discuss and describe various actual failure scenarios. In addition, a detailed primer on bearing technology prefaces the failure scenario discussions. Attendees will gain a better understanding of various types of gears and bearings.

www.agma.org/education/advanced-courses/2022-gearbox-csi/.

April 4–8—AGMA Basic Training for Gear Manufacturing - Spring

Chicago, IL. Learn the fundamentals of gear manufacturing in this hands-on course. Gain an understanding of gearing and nomenclature, principles of inspection, gear manufacturing methods, and hobbing and shaping. Utilizing manual machines, develop a deeper breadth of perspective and understanding of the process and physics of making a gear as well as the ability to apply this knowledge in working with CNC equipment commonly in use.

www.agma.org/education/advanced-courses/2022-basic-training-for-gear-manufacturing-spring/

May 18–19—CTI Symposium USA 2022

Novi, Michigan. The CTI Symposium USA will update attendees on latest technical developments and applications on automotive transmissions for conventional and alternative drives. Exchange experiences, discuss technologies and strategies with automotive experts from USA, Asia and Europe. The conference and exhibition provides expert-led plenary and technology sessions as well as expert discussions and product showcases representing the full range from complete drivetrain systems to components and engineering services.

drivetrain-symposium.world/us/.



May 30–June 2—Hannover Messe 2022

Hannover, Germany. Hannover Messe 2022 focuses on industrial transformation, which is driven by two megatrends: digitalization of industry and a reduction of CO2 emissions. Digitization covers topics such as networking, data analytics, the Internet of Things, platforms, artificial intelligence and IT security. Companies that want to remain globally competitive must take advantage of digitalization to develop, manufacture and sell products faster and more efficiently. In Hannover, companies from the electrical engineering, mechanical and plant engineering, software and IT sectors will be demonstrating how the automation and digitalization of entire production and business processes can succeed.

www.hannovermesse.de