



Transmissions in Vehicles Conference

June 22–23—Friedrichshafen, Germany. Current trends and possibilities is the subject of the 10th international VDI Transmissions in Vehicles Conference, which is held by the VDI Wissensforum. VDI is the association of German engineers. Vehicle transmission developers and users gather for this event.

The conference director is Dr.-Ing. Hans-Joerg Domian, director of new products and methods, design tasks for ZF Friedrichshafen AG. Opening papers include “The Future of Driveline Development, Potential Carbon Dioxide Savings and The Role of Electricification;” “Electromobility: An Outlook for Industry;” and “Evaluation of Transmission Concepts From The Viewpoint of a Racing Driver,” which is being presented by ex-racing driver Hans-Joachim Stuck, representing the Volkswagen Group’s motor sports division.

In addition to future-oriented transmission components for electric and hybrid vehicles, the program also includes current developments in double-clutch and automatic transmissions, manual transmission and all-wheel drives, efficiency, components, materials and production engineering, as well as clutches and operating strategies. A machine’s section is new to the program. It addresses technical trends

in agricultural machines, new developments in construction machinery drives, infinitely variable power take-off drives or improvements in the ease of gear shifting.

Another new highlight is a live, hands-on transmission demonstration during paper presentations on “8HP70H: ZF’s Multihybrid Transmission,” and “Modular Seven-Gear Dual-Clutch Transmissions as Four-Wheel Drive Version for a Sports Car of the Highest Performance Class,” where the corresponding transmissions will be in operation. Live, close-up pictures will be screened in the auditorium, so the audience can closely follow the technologies being presented.

Alongside the conference will be a technical exhibition concentrating on transmissions for commercial vehicles, buses and machines. A parallel event is the first VDI Transmissions in the Commercial Vehicle Conference. Transmission conference attendees can visit this event for free.

Registration and program information is available at www.getriebekongress.de, or from the VDI Wissensforum Customer Center, Postfach 10 11 39, 40002 Duesseldorf, Germany, wissensforum@vdi.de.

June 24–26—China (Shenzhen) International Small Motor Exhibition. Shenzhen Convention & Exhibition Centre. The eighth installment of the China International Small Motor Exhibition is co-located with several other industry events: The China International Electric Machinery Industry Exhibition 2010; The China International Magnetic Materials and Equipment Exhibition; International Electronic Equipment, Components, Photonics and Laser Exhibition; China International Power Supply Exhibition; and International Industry Control and Automation Expo for South China. The Small Motor Expo covers 7,000 square meters of exhibit space, and about 10,000 visitors are expected to be in attendance. Visitors come from all across China with 11.5 percent coming from overseas. Exhibitors include Schneider Electric, Siemens, Emerson and ABB. For more information, visit www.motor-expo.cn.

June 22–25—Expo Pack Mexico and Procesa. Centro Banamex, Mexico City. Expo Pack Mexico and Procesa 2010—expected to be host to 25,000 packaging and processing professionals—will promote technologies and innovations that contribute to sustainable development, through Expo Pack Verde (Expo Pack Green). Based on the Pack Expo Green program, Expo Pack Verde represents a new opportunity for business. Participating exhibitors of Expo Pack Verde will display green technologies including sustainable packaging materials and energy efficient machinery. For more information, visit www.expopack.com.mx.

July 6–9—World Congress on Intelligent Control and Automation. Shandong Hotel, Jinan, China. The eighth WCICA is one of the 110th anniversary celebration events of Shandong University. Visitors can attend plenary lectures given by various university scholars from all over the world. Panel sessions will be presented on how to publish papers in international journals, control science and engineering: the present and the future, and frontiers in robotics and automation. Eight free tutorial workshops are part of the schedule. The workshops topics include stability and control of time-delay systems, fractional order dynamic systems and controls, nonlinear control based on input-to-state stability and small gain, as well as deterministic learning and pattern-based intelligent control. For more information, visit www.wcica.info.

August 2–5—CAR Management Briefing Seminars. Grand Traverse Resort and Spa. Traverse City, MI. The Center for Automotive Research (CAR)'s Management Briefing Seminars is a traditional summer gathering for the automotive industry. Sessions on Monday will concentrate on manufacturing, especially related to tomorrow's vehicles, and on deploying connected vehicles. Tuesday's concurrent sessions will focus on powertrain developments, supplier prospects in China, the financial

outlook and the intersection of electric vehicles and technology, communications, the infrastructure and the public sector. Senior level OEM and supplier executives and government officials will headline Wednesday and Thursday sessions, addressing the broader issues associated with the emerging industry and restructuring. For more information, visit mbs.cargroup.org/2010.

September 6–8—International Conference on Electrical Machines. Crowne Plaza Rome-St. Peter's Hotel, Rome. The ICEM is a biannual event in its 19th edition that is entirely devoted to electrical machines. A community of specialists discusses the progress achieved and the future developments in technologies, analysis, design, testing, operations, practical applications, maintenance and teaching in the field of electrical machines. Conference topics have been divided by tracks, each of which has two co-chairs or more for reviewing. Topics include conventional machines; non-conventional machines; electrical drives; materials; theory, modeling and design; measurement, testing, losses and efficiency education; embedded applications; and grid-connected and emergency applications. For more information, visit www.icem2010.it.

September 21–23—Atlantic Manufacturing Technology Show. Exhibition Park, Halifax, Nova Scotia. The Atlantic Manufacturing Technology Show (AMTS) brings manufacturers together to connect on new technology and new products. The Atlantic Canada region is home to more than 2,600 manufacturing companies employing nearly 24,000 workers. AMTS will bring together diverse industries such as aerospace, defense, heavy equipment, mining, energy, wood products, machinery and metal fabrication. For more information, visit www.sme.org/amts.

September 9–10—International AVL Engine and Environment Conference. Helmut-List-Halle, Graz, Austria. This conference, held by Austrian powertrain developer AVL, looks at the innovative internal combustion (IC) engine in the context of powertrain electrification as a major key to long-term carbon dioxide reduction. Exploration of the potential of IC engine powertrains is a major topic, as well as developments necessary to enable current niche solutions to enter the high-volume market will be discussed. The following issues will also be looked at: IC engine innovations; optimization of the IC engine as the strategy of major OEMs for the next 20 years; ecology and economics of different technologies; the battery as an obstacle or chance on the way to the high-volume electric drive; electric vehicles with and without range extenders; software; and the transmission as a system enabler. For more information, visit www.avl.com/engine_environment.