Exhibitor Directory
June 22-24, 2017 Chicago, Illinois, USA

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2017 IEEE Transportation Electrification Conference and Expo (ITEC ‘17)

Navy Pier
Chicago, IL, USA
June 22-24, 2017
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Exhibit Hall Hours

Thursday, June 22, 2017: 12:00 pm - 7:30 pm

Friday, June 23, 2017: 12:00 pm - 7:30 pm
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Abstract Power Electronics specializes in SiC based high frequency power converters of many configurations that can be customized for OEMs. We also offer Primate Power™, a family of flexible, rugged, compact, efficient power sources. They are bi-directional, can be used to simulate grids, test batteries or motors, and more.

Advanced Test Equipment Rentals (ATEC) is a worldwide leading rental company of test and measurement equipment. ATEC provides a robust selection of the latest technology available through short and long term rental options, and for sale. For 35 years, we have proudly supported design engineers in the communications, aerospace and defense sectors among many others. You can rely on ATEC to provide the knowledge, the equipment, and the solutions for your next test equipment needs.

AllCell Technologies designs and manufactures lithium-ion battery packs for portable, stationary, and transportation applications. Our patented PCC thermal management technology allows production of compact, lightweight, and long-lasting batteries. AllCell’s thermal management technology is based on the use of phase change materials (PCM) to surround each lithium-ion cell, absorbing and conducting heat away to dramatically extend the life of the cells and prevent fire or damage to the battery.

Argonne is a multidisciplinary science and engineering research center, where talented scientists and engineers work together to answer the biggest questions facing humanity, from how to obtain affordable clean energy to protecting ourselves and our environment. Ever since we were born out of the University of Chicago’s work on the Manhattan Project in the 1940s, our goal has been to make an impact — from the atomic to the human to the global scale.
Arnold Magnetic Technologies

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Booth Representative: Aaron Williams

Arnold Magnetic Technologies is a leading global manufacturer of high performance magnets, magnetic assemblies and precision thin metals. Arnold serves a variety of markets from consumer, industrial, and medical to military, aerospace, and telecommunications. Arnold’s magnets, metals and systems are used in high-efficiency motors and generators, sensors, batteries, and more.

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Booth Representatives: Jeff Querin and Jonathan McCalli

Chroma is the largest worldwide provider of power testing instruments and systems including programmable AC/DC Power Sources, AC/DC Electronic Loads, Digital Power Meters, MultiMeters, and Automated Testing Systems. Chroma’s EV/HEV Automated Test Systems address the power conversion testing of several power electronic units including the EV Charger, HEV Controller, Motor Driver as well as Battery. Chroma’s instruments and systems provide power conversion testing to meet rigorous standards during R&D, DVT and production phases.

C-Motive

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Booth Representative: Justin Reed

C-Motive Technologies provides unique electric machines to meet unique market needs. We design, develop and sell tailor-made electric machines with high efficiency and superior torque density. These motors, generators, and actuators encompass a variety of sizes and form factors. Our innovative team is reinventing electric machines with patented technology that reduces system complexity and weight, while boosting efficiency and performance. C-Motive is a privately held company based in Madison, WI.

D&V Electronics

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E&M Power combines leading edge technology and innovative design to produce superior EV/HEV motor drive inverter and DC power system test solutions. The Active Load Emulator for automotive traction inverter testing mimics the 4-quadrant electrical output of 3-phase synchronous or induction motor/generators under user-controlled speed, torque and temperature conditions thereby simulating an electric drive train. This electronic dynamometer, with facility requirements suitable for laboratory installations, offers significant advantages in test capabilities and flexibility, and low acquisition and operating costs. The DC Emulator product line is a 30kW to 1.2MW DC source/sink that emulates dynamic, complex bidirectional loads with best in class frequency response, deterministic streaming with <1us latency, bidirectional full-power slew rate of <100us and repeatable noise/ripple generation. Ideal for testing vehicle energy systems and components, including batteries, and for HIL with real-time simulation to emulate large switching and regenerative loads to study their effect on the whole power system.

Gamma Technologies is the developer of GT-SUITE, the leading 0D/1D/3D multi-physics, system-level CAE simulation software. GT-SUITE provides a comprehensive set of libraries for fluid flow, thermal, mechanical, electrical, magnetic, and chemical domains to build accurate models of electrified vehicles, battery systems, IC engines, or transmission and driveline systems.

We are a Distributor and Integrator of Sensors, Transducers, Instruments and Systems based on magnetics. Products and support are provided for: non-contact, isolated sensing of mechanical position and magnetic material; magnetic field and magnetic property measurement; electric current measurement and control; magnetic field generation and control; particle beam control and acceleration.
How2Power

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Booth Representative: David Morrison

David Morrison, Editor of How2Power.com will be attending ITEC and is available for interviews. How2Power.com is an online power electronics publication and research portal for engineers. You'll find more information about How2Power at http://www.how2power.com/about.php.

Idaho National Laboratory

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Booth Representative: Fernando Dias

INL’s Clean Energy & Transportation Division addresses the opportunities and challenges associated with advanced vehicles, bioenergy, hydrogen / fuel cells, wind, and hydro as clean energy resources. We are helping improve energy storage for more efficient batteries, developing new modeling capabilities for new materials, and refining engineering processes and equipment for more effective analyses. Integration of advanced power systems is the core aspect of INL’s Renewable Energy Program. Our focus and expertise converges around applying engineering research capabilities to challenges associated with renewable energy development, advanced communication, resiliency, self-healing, quality of service, grid development, mechanical design, heat transfer, and controls.

Infolytica

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Booth Representatives: Gilles Fillion and Luay Ghafari

Infolytica Corporation has offered state-of-the-art software for electromagnetic and electric field simulations since 1978. Our tools are for designers, academics, scientist & engineers interested in analysis & virtual prototyping, which can save both time and money. Multiple configurations can be explored quickly, providing insight into performance for design improvements which reduce costs. MagNet 2D/3D is a powerful simulation software for the design of motors, sensors, transformers, actuators, solenoids or any component with permanent magnets or coils.

MotorSolve combines electromagnetic & thermal models of your electric machine in one design environment: brushless DC, induction, PMAC, SRM, PMDC, wound Field and more.

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In high technology, the key to success is delivering what's next. First. We are Keysight Technologies, a brand new company with over 75 years of electronic test and measurement success under our belts. Founded in 1939 by Bill Hewlett and David Packard as HP, our expertise continued as Agilent Technologies' Electronic Measurement Group.

LTEC Corporation, Japan's dominant intellectual property analysis company, provides in-depth competitive technical analysis, benchmarking, and reverse engineering services for the research and development engineering and industrial legal communities in form of an innovative, and collaborative approach. The primary focus of the company is on vehicle electrification, autonomous vehicles, ADAS, all types of semiconductors including SiC and GaN devices, automotive and power electronics. With regional offices in the USA, Japan, Korea, and Taiwan, LTEC helps its customers overcome intellectual property (patent) research, analysis, and protection challenges across all sectors of electronics. With over 100 highly trained engineers and PhDs, and 33-years of an impeccable track record, LTEC stands ready to help retain or gain a competitive edge for its clients worldwide.
MacAUTO is the coordinating body for automotive research and education at McMaster University. The University’s numerous automotive-related research institutes and centers work with industry, government and academic partners in developing and commercializing new technologies including hybrid and electric vehicles, powertrains, and powertrain components and control.

Mercedes-Benz Research & Development North America, Inc

MBRDNA continuously strives to remain at the forefront of successful automotive research and development in North America. Key areas of focus include creating a digital design language for Mercedes-Benz vehicles, designing in-car instruments, hardware/software interfaces for the truly digital car, and connecting cars to the cloud and mobile devices. Many ideas test and trial in concept and show cars.

Mentor Graphics

The Mechanical Analysis Division provides MicReD® test solutions for assessing thermal reliability, quality and thermal characterization of power semiconductors using accurate, repeatable thermal transient measurement technology (T3Ster®) & FloTHERM®, the leading electronics cooling simulation software product family. The MicReD® Power Tester™ range, for testing IGBTs, MOSFETs and similar, combines active power cycling with non-destructive failure diagnosis, to track thermal degradation development during testing to enhance reliability & field lifetime prediction studies.

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Motor Design

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Motor Design Ltd (MDL) is a world leader in developing advanced software and tools for designing electrical machines. We have been developing electric motor software since 1998.

Our software, Motor-CAD, is recognized worldwide as class-leading motor design software. We use our expert knowledge of designing electric motors to provide software support to electric machine designers at some of the most prestigious aerospace, automotive and industrial companies worldwide.

The design consulting services we offer cover all aspects of motor design from concept, performance optimization, through to test and prototype development. Our customers benefit from our years of experience in designing electric motors and in-depth knowledge of simulation techniques.

Research and innovation is at the heart of what we do. We are active on several international research funded projects and have developed advanced motor solutions for the automotive and aerospace markets.

NAATBatt

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W: www.naatbatt.org
Booth Representatives: James Greenberger and Ellen Greenberger

NAATBatt International (“NAATBatt”) is a not-for-profit trade association of companies, associations and research institutions commercializing advanced electrochemical energy storage technology for emerging, high tech applications. NAATBatt members include advanced battery, ultracapacitor and electrode manufacturers, energy materials suppliers, vehicle makers, electric utilities, equipment vendors, service providers, universities and other research institutions.

Electrochemical energy storage is the most important technology challenge of our time. Solving the problem of how to store more electricity in a smaller mass is fundamental to progress in vehicle technology, the Smart Grid, robotics, consumer electronics, unmanned aviation, fuel efficient maritime systems, electricity-based weapons systems, medical devices, monitoring systems and many of the other technologies that will shape human society in the 21st Century.

NAATBatt’s core mission is to promote the commercial interests of its members by accelerating the adoption of electrochemical energy storage technology in the marketplace. NAATBatt helps its members succeed in that marketplace by providing them with market intelligence, greater visibility for their brands and technologies, networking opportunities and better access to new and emerging technologies.

NH Research

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NH Research, Inc. designs and manufactures power test instruments & solutions used to functionally test power & energy devices such as EV/HEV batteries, DC power supplies, converters, telecom rectifiers, chargers, adapters, grid tied inverters, stand-alone inverters and UPSs. NHR test equipment consists of power supply testers, power instruments such as AC and DC programmable electronic loads, regenerative battery test systems & battery simulator that provide multiple independent channels of charge/discharge testing on multiple battery modules, packs, DC regulators and motors. Flexibility to add more channels in parallel to support higher current requirements and also add channels can be done to increase channel count. Optional software packages are available and offer instrument & system level control to create cycle tests from basic to complex drive cycle testing for each channel or channel groups.
SCI - At SCI we develop products that make safety testing simple. We know what it takes to stay current, relevant, and ahead of the competition.

**Saber Software: Powersys, Inc**

2000 Town Center, Suite #1900
Southfield, MI 48075

**Booth Representatives:** David Cottini, Emmanuel Rutovic, and Brad O’Connell

SABER software is a proven platform for modeling and simulating physical systems, enabling full-system virtual prototyping for applications in analog/power electronics, electric power generation/conversion/distribution and mechatronics. Saber is distributed by Powersys, Inc

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405 Essex Rd
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**Booth Representatives:** George Scherma and Dave Martens

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**Booth Representative:** Alicia Tomaszewski

The IEEE Transportation Electrification Community coordinates broad and deep activities throughout the IEEE in the growing electrification revolution across transportation domains, including advances in electric and hybrid cars, more-electric ships and aircraft, rail systems, personal transport, and the motive, storage, power grid, electronic intelligence, and control technologies that make them possible. Creates leadership, professional development, standards development, and other opportunities for practitioners, researchers, students, and all IEEE members interested in electric transportation. The IEEE Transportation Electrification Community coordinates broad and deep activities throughout the IEEE in the growing electrification revolution across transportation domains, including advances in electric and hybrid cars, more-electric ships and aircraft, rail systems, personal transport, and the motive, storage, power grid, electronic intelligence, and control technologies that make them possible. Creates leadership, professional development, standards development, and other opportunities for practitioners, researchers, students, and all IEEE members interested in electric transportation.
Tridus Magnetics

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Booth Representative: Tracy Moon

Tridus is a supplier of permanent magnets and permanent magnet assemblies. Tridus is a US company with a China presence providing customers with a low cost and high reliability path to sintered and bonded NdFeB magnet manufacturing. Please stop by our booth to discuss our new line of NdFeB magnets that exhibit improved magnetic properties while thriving heavy rare earths.

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Valeo is a global automotive supplier and partner to all automakers worldwide. As a technology company, we provide innovative products, systems, and solutions that reduce automobile CO₂ emissions, improve vehicle performance, and develop intuitive driving.

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Booth Representative: Helene Demont and Dheeraj Bobba

WEMPEC is an internationally renowned power electronics research and electric machines research group located at the University of Wisconsin-Madison. With the support of our 80+ corporate sponsors, our team of professors, graduate students, and international scholars work together to research and develop the newest technologies and techniques in electric machines, power electronics, actuators, sensors, drives, motion control, and drive applications.
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