



You are cordially invited to be a part of the inaugural 2009 IEEE Energy Conversion Congress and Exposition (ECCE 2009) during September 20-24, 2009, at the Doubletree Hotel in beautiful San Jose, CA, USA.

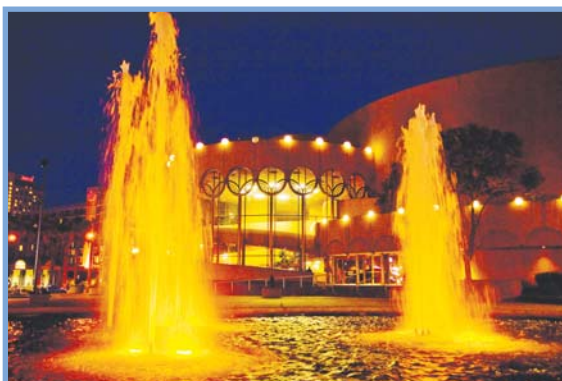
ECCE 2009 brings together the IEEE power electronics, electric machines, and energy conversion systems communities into one comprehensive annual event. Energy conversion and energy efficiency/savings are taking on ever-increasing importance in today's global marketplace! Integrated system solutions are critical to meeting these challenges. ECCE provides a unique synergistic forum for energy conversion professionals to meet and exchange ideas that will accelerate the process of finding these solutions.

The technical sessions focus on advancing the state-of-the-art in a wide range of energy conversion topics identified in this Call for Papers complemented by engaging plenary speakers, tutorials, and posters. The accompanying Expo showcases the latest advances in products and services to meet the current and future challenges facing the energy conversion industry. We hope you will join us for this groundbreaking event!

For more information please contact:
Energy Conversion Congress and Exposition
2025 M Street NW, Suite 800
Washington, DC 20036
P: 202.973.8744 • F: 202.331.0111
ecce@courtesyassoc.com

Venue

The conference will be held at the Doubletree Hotel San Jose. Set in the heart of the Silicon Valley, San Jose, California flourishes with industry, beauty and a culture rich with history. The Doubletree Hotel San Jose places you in the center of San Jose — and it is also just an hour south of San Francisco and north of Monterey/Carmel, California.



Travel Information

The hotel is located less than a half-mile from the San Jose International Airport, and 45 minutes from the San Francisco International Airport.



www.ecce2009.org

ECCE 2009
c/o Courtesy Associates
2025 M Street, NW, Suite 800
Washington, DC 20036

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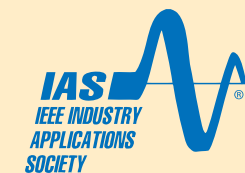
ENERGY CONVERSION CONGRESS & EXPO



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September 20-24, 2009
DoubleTree Hotel • San Jose, CA

CALL FOR PAPERS





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Call For Papers

ECCE 2009 combines the former IEEE Power Electronics Specialists Conference (PESC) with the technical sessions of the Industrial Power Conversion Systems Department (Electrical Machines Committee, Industrial Drives Committee, Industrial Power Converter Committee and the Power Electronics Devices and Components Committee) previously presented at the IEEE Industry Applications Society Annual Meeting. Papers are solicited on any subject pertaining to the scope of the conference, including but not limited to the following:

Energy Conversion Systems

Renewable and Alternative Energy Systems: Solar and Photovoltaic Energy Systems and Interface, Wind Energy Systems and Interface, Water Energy Systems and Interface, Energy Harvesting, Fuel Cells and Conversion, Solid State Generation & Interface (e.g., Thermoelectric, Thermophotovoltaic, Thermionic), Energy Storage and Interface (e.g., Battery, Flywheel, SMES, Thermal)

Control Issues: Power Converter and Motor Control Algorithms; Real-Time Control Implementation; Digital Control Techniques; Sensors and Sensor Elimination Techniques for Power Electronics, Machines, and Drives; Measurement and Instrumentation

Thermal Management and Efficiency: Thermal Management of Electric Machines, Power Converters, and Drives; Energy Efficiency of Power Electronics, Electric Machines, and Drive Systems.

Electrical Power Systems: Electrical Power System Architectures and Management; Distributed Resources and MicroGrid Power Systems

Power Quality, Grid Interface and EMI: EMI-EMC, Power Quality including Harmonics and Active Filters, Power Factor Correction

Reliability and Diagnostics: Reliability, Fault Management, Protection, and Fault Tolerance; Power Converter and Machine Diagnostics and Prognostics.

Modeling, Analysis and Simulation: Modeling, Analysis and Simulation Methods for Power Electronics and Motor Drives; Optimization Techniques for Electric Machines and Power Electronics

Other topics: Education Methodology and Tools for Power Electronics, Electric Machines, and Drives; Development and Harmonization of Standards for Electric Machines, Power Converters, and Drives

Components, Subsystems, and Applications

Power Converters: DC-DC; DC-AC; AC-AC; AC-DC; Soft Switching and Resonant Converters; Inverters and Converters for Motor Drives; Multilevel Converters

Power Electronics Components and Packaging: Power Semiconductor Devices and Integrated Circuits; Passive Components: Inductors, Capacitors, Transformers, etc.; Energy Storage including Batteries and Ultracapacitors; Packaging and Modules; Integration at the Component, Power Converter, and Motor Drive Levels; New Materials Utilization in Power Electronics; Operation under Extreme Environmental Conditions

Electric Machines and Actuators: Permanent Magnet Machines; Induction Machines; Reluctance Machines; Linear Electric Machines; Electromechanical Energy Storage Systems (Flywheels); Special Machines, Actuators and Transducers; New Materials Utilization in Electric Machines and Actuators.

Electric Drives: Drive Configurations for All Types of Electric Machines and Actuators; All Issues Related to the Performance, Control, Reliability, and Cost of Electric Drives; Drives of All Performance Levels Ranging from General-Purpose to High-Performance Servos; System Interactions between Drives, Machines, and Sources; Machine—Drive Integration Issues

Applications: Transportation Applications for Automotive, Rail, Aerospace, and Marine, including Hybrid-Electric Drivetrains and Accessories; Lighting and Displays; Uninterruptible Power Supplies (UPS); Industrial, Residential, and Commercial Applications of Power Converters and Motor Drives; Servos, Robotics, and Mechatronics Systems; Utility Applications in Transmission and Distribution including HVDC; Biomedical Applications; Other Applications of Power Electronics, Electric Machines, and Drives

ECCE 2009 Author Deadlines and Requirements (see web site for more details)

January 15, 2009	Abstracts and digests of proposed papers must be submitted via the ECCE web site
May 25, 2009	Notification to authors of acceptance or rejection of papers selected for presentation
July 20, 2009	Completed papers and IEEE Copyright forms received.

- The one page abstract must be fifty to one hundred words with fully headed paper title, names of all authors, area of interest, and name and address of the corresponding author, including phone, fax, and e-mail address.
- Digest of up to five (5) pages, including key equations, figures, tables, and references, headed by the paper title only. The digest must state: purpose of work, manner in which it advances engineering and/or science, and specific results and their significance in sufficient detail for undergoing a review process.