

APEC 2006

21st Annual IEEE Applied Power Electronics Conference and Exposition

Announcement and Call for Papers

February 19-23, 2006

Sheraton Hotel

New Orleans, Louisiana

APEC 2006 continues the long tradition of focusing on practical issues of interest to the power electronics profession. This conference provides outstanding technical content at one of the lowest registration costs in the IEEE. Over five days APEC also provides a) the best power electronics exposition of the year, b) professional development courses taught by world-class experts, c) an international presentation of peer reviewed technical papers covering a wide range of topics, and d) time to network and enjoy the company of fellow power electronics professionals.

Papers of practical value are solicited in the following topic areas. Please see the APEC 2006 website for a more detailed description by subtopic:

1. AC-DC Converters

Single phase and multiphase ac-dc power supplies, power factor correction, multilevel active front end conversion

2. DC-DC Converters

Low voltage to low voltage conversion, high voltage, high power (kW to MW), microprocessor power (VRMs)

3. DC-AC Inverters

Dc to single phase, dc to multiphase, multilevel inverters

4. Motor Drives

Drives for induction machines, permanent magnet machines, switched reluctance machines

5. Other Power Electronic Circuits

6. Semiconductors

Discrete and integrated devices

7. Energy Storage Components

Magnetics, capacitors, batteries and chargers

8. Mechanical Components

Connectors, bus bars, substrates, thermal management

9. Sensors

Electrical sensors, nonelectrical sensors, sensor signal conditioning

10. Other Components

11. Applications and Systems

Power systems for electronic equipment, mobile and autonomous equipment, automotive and transportation, aerospace,

military, lighting systems, ballasts, alternative energy, UPS, electrical power generation, transmission and distribution

12. Modeling, Simulation and Control

Power supplies, electric machines and drives, power systems

13. Physical Design and Packaging

Thermal management, integration of design tools, physical design, packaging, EMI and EMC

14. Business Issues

Marketing, manufacturing, quality, test, power electronics business issues, DFx, standards and regulations

15. Other Topics

Please note the following deadlines:

July 25, 2005

Deadline for submission of abstract and digest

October 10, 2005

Notification that a paper was accepted or declined

December 5, 2005

Final papers are due

Preparation of Abstracts and Digests: Prospective authors of technical papers are asked to submit a three to five page digest including an abstract of up to 200 words. The digest should be double spaced and include references. It should be a concise description of their planned presentation and can include figures and tables. For further details please visit www.apec-conf.org. Authors should obtain any necessary company and governmental clearance prior to submission of digests. Digests will be sent to multiple reviewers; therefore "Confidential" and "Proprietary" information should be omitted. Papers presented at APEC must be original material and not have been previously presented or published. Manuscripts not received by the deadline cannot be published in the Proceedings and will not be presented at the conference. Finished manuscripts exceeding seven pages will be subject to publication page charges.

APEC relies on a peer review process to ensure the quality of the technical content. All Abstracts and Digests receive multiple reviews, and we rely on a group of highly qualified experts to serve in this capacity. If you are interested in becoming an APEC reviewer please register at www.apec-conf.org (under "More about APEC"). The principal criteria in reviewing Digests for acceptance will be the usefulness of the content to the practicing power electronics professional, and the completeness of all experimental work.

Professional Education Seminars at APEC are typically three hours in length and can cover a wide range of topics. Both introductory and advanced topics are welcome, and all presenters will receive an honorarium. If you are interested in presenting a Professional Education Seminar at APEC 2006, please see the Call for Seminar Proposals at www.apec-conf.org.

Website: www.apec-conf.org

Email: apec@courtesyassoc.com

Phone: +1-202-973-8664

Facsimile: +1-202-331-0111

APEC

2025 M Street

Suite 800

Washington, DC 20036

APEC Sponsors:

Power Sources Manufacturers Association

IEEE Industry Applications Society

IEEE Power Electronics Society