



Call for Papers

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EDS Vacuum Electronics Committee

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Meeting Arrangements

Ralph Nadell, Palisades Convention Management

Dear Colleagues,

We are pleased to announce the return of the International Vacuum Electronics Conference to the picturesque and historic city of Monterey, California. The conference will take place at the Portola Plaza Hotel and will be held on April 22–24, 2008.

Plenary talks will provide insights into the broad spectrum of scientific issues and applications that are driving the current directions in vacuum electronics research. In particular, a number of topical scientific and commercial applications will be highlighted, including digital broadcasting, high data-rate communications, medical applications, and RF accelerator technology for high energy physics. Technical presentations will span the range from UHF to THz frequencies and will present current work in theory and computational tool development, active and passive components, systems, and supporting technologies.

Developers of systems will find that IVEC provides a unique snapshot into the current state-of-the-art in vacuum electronic devices. These devices continue to provide unmatched power and performance for advanced electromagnetic systems, particularly in the challenging frequency regimes of millimeter-wave and THz electronics.

We invite you to submit papers to IVEC to report on your work and experiences in vacuum electronics. The meeting will be configured to maximally disseminate useful information to device users, manufacturers, academics, and students. We encourage submission of papers from all groups.

A special IVEC Award for Excellence and a Student Paper Award will be granted at the conference. As in past conferences, the meeting and social events will provide a unique opportunity to renew or establish new friendships with colleagues, interact with customers and end-users, and meet students and academic researchers.

We hope to see you all at IVEC 2008.

Sincerely,

The IVEC 2008 Organizing Committee

Sponsored by the IEEE Electron Devices Society



Technical Subject Categories*1. Vacuum Electron Devices*

Traveling-wave tubes (all types)
Crossed-field devices (oscillators and amplifiers)
Klystrons
Multiple-beam devices
Inductive output tubes
Fast-wave devices (gyrotrons, gyro-amplifiers)
Free electron lasers and masers
Pulse compression devices
Plasma filled amplifiers and oscillators
High power microwave devices / RF directed energy
Triodes, tetrodes and pentodes
Power switches

2. Vacuum Microelectronics / Nanoelectronics

Microwave, millimeter-wave & THz amplifiers and oscillators
Field emitter arrays
Flat panel displays
Sensors and detectors

3. Systems and Subsystems

Microwave and millimeter-wave power modules
Electronic power conditioners, modulators, and supplies
Linearizers
Amplifier/antenna coupling
Device and system integration
Reliability

4. Technologies

Cathodes and other electron emitters
Component parts (e.g. guns, circuits, windows, collectors)
Analysis and computer modeling
Novel materials (e.g. dielectrics, coatings, magnetic materials)
Electron emission
RF breakdown
Linearity, intermodulation and noise
Novel measurement techniques
Miniaturization
Thermal power management and control

5. Applications of Vacuum Electron Devices

Defense
Space
Radar
Telecommunications
Medicine
Particle accelerators
RF interference
Instruments and lithography
Materials Processing
Television
Displays
Electric Propulsion

Additional Information

Please visit our website for additional information about the conference as it becomes available. Foreign Nationals are encouraged to start the visa process early. Please contact the conference organizer with questions or for assistance.

Preparation of Abstracts

Prospective authors are invited to submit one copy of an extended summary of the work to be reported including as many details as possible. The inclusion of figures, tables and especially numerical data is strongly recommended. The top of the first page should include the name, affiliation, city and state of each author, plus the mailing address, telephone, fax number, and e-mail of the corresponding author. Abstracts may be up to 2 pages in length, and in 8.5 x 11 inch paper format (area of text and figures on each page should not exceed 16.5 x 22.85 cm). Please use 14 point bold Times New Roman font for the title and 11 or 12 point Times New Roman font for all other text.

Abstracts should be submitted electronically in either Adobe Acrobat (.pdf format) or Microsoft Word (.doc format) by **January 4, 2008** to:

Rnadell@pcm411.com

If unable to send abstract electronically, please send one copy of all material to:

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Abstracts will be published in Conference Proceedings which will be distributed at the meeting. To insure high quality publication, please follow the format guidelines given above. Authors of accepted papers will be **REQUIRED** to resubmit their material no later than **March 3, 2008** as an IEEE Xplore compliant pdf. Details will be supplied with the acceptance notices.

Oral Presentations

Each paper selected for oral presentation at the conference will be allotted a total of 20 minutes – 15 minutes for presentation and 5 minutes for questions and discussion. To maintain the schedule of each session, authors are asked to insure that their presentations conform to these time constraints.

Awards

Nominations are solicited for the **2008 IVEC Award for Excellence in Vacuum Electronics**. Any member of the vacuum electronics community is eligible to make a nomination according to the procedures described in detail on the IVEC 2008 website.

A prize for the **Best Student Paper** presented at IVEC 2008 will be awarded during the conference. To be eligible for the award, the first author of the paper must be a full-time student and the paper must be identified as a student paper when it is submitted.

Schedule

Submission of abstract	January 4, 2008
Notification of acceptance	January 31, 2008
Revised IEEE compliant abstract due	March 3, 2008

