



Seventh IEEE International Vacuum Electronics Conference and  
Sixth IEEE International Vacuum Electron Sources Conference

**IVEC-IVESC 2006**

April 25 – 27, 2006  
<http://ivec2006.org>

Portola Plaza Hotel  
Monterey, CA 93940

**Final Call for Papers**

**Conference Organizing Committee**

*General Chairman:* Robert Fickett, CPI  
*Technical Program Co-Chairmen:*  
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Philippe Thouvenin, Thales ED  
Richard True, L-3 EDD  
Pierre Waller, ESA

**Meeting Arrangements**

Ralph Nadell  
Palisades Convention Management  
[RNadell@pcm411.com](mailto:RNadell@pcm411.com)

*Sponsored by the IEEE Electron Devices Society*

Dear Colleagues,

We are pleased to announce that this year IVEC and IVESC will be collocated and combined into one joint conference. Electron sources form the heart of vacuum electron devices and IVEC has historically included numerous sessions on cathodes and guns. Inclusion of IVESC will provide an expanded presence in this key area of device technology and will provide additional depth and scope to the breakthroughs in source technology that are happening every day.

For systems developers, IVEC and IVESC should provide a unique snapshot into the state of the art in vacuum electron devices. These devices continue to provide power and performance for advanced electromagnetic systems especially at higher frequency. Rapid technological advances in the vacuum electron device area, plus new and improved devices, are making possible systems having reliability and capabilities well beyond any fielded today.

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

The joint conference will be held at the Portola Plaza Hotel in Monterey, California. On the first morning, there will be a plenary session with speakers covering subjects of broad interest. This will be followed by two and a half days of technical presentations, both oral and poster. The special IVEC Award for Excellence and Student Paper Award will be granted at the conference, and the conference banquet will be held at the beautiful Monterey Bay Aquarium. As in past conferences, the meeting and social events will provide a unique opportunity to renew friendships with colleagues and friends, interact with customers, and meet students.

We hope to see you all at IVEC 2006.

Sincerely,

The IVEC-IVESC 2006 Organizing Committee



**"System Excellence through Vacuum Electronics"**  
<http://ivec2006.org>



**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 pulsed power devices  
Triodes, tetrodes and pentodes  
Power switches

*2. Vacuum Microelectronics*

Microwave and millimeter wave 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 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*

Military  
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.

**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 12 or 11 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 6, 2006 to:

**Rnadell@pcm411.com**

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

**Mr. Ralph Nadell**  
**Palisades Convention Management**  
**411 Lafayette Street, Suite 201**  
**New York, NY 10003**  
**Phone: 212-460-8090 x 203**  
**Fax: 212-460-5460**

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 have the opportunity to resubmit camera-ready manuscripts until March 3, 2006.

**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 ensure that their presentations conform to these time constraints.

**Awards**

Nominations are solicited for the 2006 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 2006 website.

A prize for the best student paper presented at IVEC 2006 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 6, 2006
Notification of acceptance	January 31, 2006
Camera-ready paper due	March 3, 2006

