



IVEC 2010

May 18 – 20, 2010
<http://www.ivec2010.org>

Portola Plaza Hotel and Spa at Monterey Bay
Monterey, CA 93940

Call for Papers

Conference Organizing Committee

General Chair: Carol Kory, Teraphysics Corporation
Technical Program Chair: William Menninger, L-3 Communications, ETI

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Baruch Levush, NRL
Ralph Nadell, Palisades Convention Management
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EDS Vacuum Electronics Committee

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Richard True, L-3 EDD, USA
Jenq-Daw Wang, Chung-Shan Inst. of Sci. & Tech., Taiwan

Meeting Arrangements

Ralph Nadell, Palisades Convention Management

Dear Colleagues,

The Eleventh International Vacuum Electronics Conference (IVEC 2010) is returning to the picturesque city of Monterey, California on May 18-20, 2010. The meeting will be held at the Monterey Conference Center at the Portola Hotel and Spa under the sponsorship of the IEEE Electron Devices Society (EDS).

IVEC was originally created in 2000 by merging the US Power Tubes Conferences and the European Space Agency TWTA Workshops, and has now expanded to a fully international conference, being held every other year in the US, and in Europe and Asia alternately every fourth year. After Kitakyushu, Japan in 2007, Monterey, CA in 2008, and Rome, Italy in 2009, IVEC returns to Monterey, CA in 2010. Monterey is a spectacular coastal community in northern California with a temperate climate year-round. Visitors from around the world come to Monterey to experience its natural beauty, cultural resources and rich historic past.

Plenary talks will provide insights into the broad spectrum of scientific issues and applications that are driving the current directions in vacuum electronics research. 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 researchers, device users, manufacturers, and academia. 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 2010.

Sincerely,
The IVEC 2010 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
 Device/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 <http://www.ivec2010.org/> for additional information about the conference as it becomes available.

Preparation of Abstracts

Prospective authors are invited to submit a 2-page abstract 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 deadline to submit abstracts for Program Committee review is **January 15, 2010**.

Abstracts must be submitted as an IEEE Xplore compliant pdf through the following URL:

<http://www.sheridanprinting.com/pcm2010/ivec.htm>.

This site also provides details to aid authors in making their abstracts IEEE Xplore compliant.

Author notification will be made on **February 15, 2010**. Abstracts of work accepted for presentation will be published in the Conference Book of Abstracts, which will be distributed at the meeting and published by IEEE (available via IEEE Xplore).

Authors of accepted papers will also have an opportunity to resubmit their material no later than **March 12, 2010**.

Questions on abstract submission may be directed to:

Mr. Ralph Nadell
Palisades Convention Management
411 Lafayette Street, Suite 201
New York, NY 10003
Phone: +1 212-460-8090 x 203
Fax: +1 212-460-5460
Rnadell@pcm411.com

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 **2010 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 2010 website.

A prize for the **Best Student Paper** presented at IVEC 2010 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 15, 2010
Notification of acceptance	February 15, 2010
Revised abstract due	March 12, 2010

